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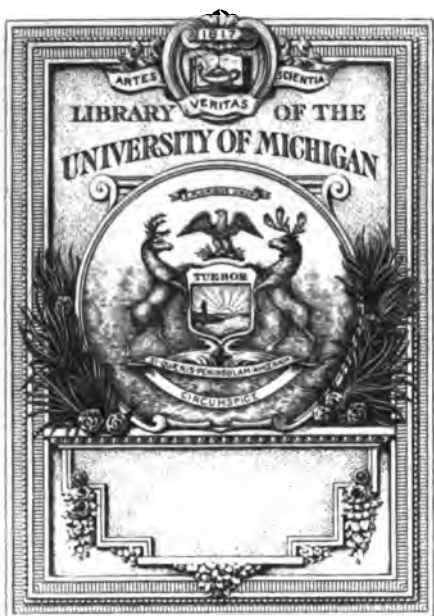
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1879-1885

Lacks no. 3, 13

no. 1
From the Editor
Library of Harvard University.

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BIBLIOGRAPHICAL CONTRIBUTIONS.



ITIONS.

NIVERSITY,

CAMBRIDGE, MASS.:
PRESS OF JOHN WILSON AND SON.
1879.

Very truly yours,
R. L. Davis

My dear James -

I am sorry that we
have not a single copy left
of Vol. 1. 10. 16. 17. 24 -
all are gone.

Yrs truly
R. L. Davis

w.1
From the Editor
Library of Harvard University.

Z
100
H33

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 2.



SHAKESPEARE'S POEMS.

A BIBLIOGRAPHY OF THE EARLIER EDITIONS.

By JUSTIN WINSOR,
LIBRARIAN OF THE UNIVERSITY.

REPUBLISHED FROM THE BULLETIN OF THE LIBRARY OF HARVARD UNIVERSITY,
OCTOBER, 1878, AND JANUARY, 1879.

CAMBRIDGE, MASS.:
PRESS OF JOHN WILSON AND SON.
1879.

Already issued :

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems : a Bibliography of the Earlier Editions.

SHAKESPEARE'S POEMS.

A BIBLIOGRAPHY OF THE EARLIER EDITIONS.

BY JUSTIN WINSOR, *Librarian of the University.*

* * * Use has been made, with corrections and additions, of the notes printed by me, as Superintendent of the Public Library of Boston, in the monthly reports of that institution, March-June, 1876; and of a transcript of the catalogue of the British Museum under this head, made for me by William F. Fowler of London, who appends elaborate descriptions of the copies in that library. I have also derived benefit from an inspection of many of the copies, made during a visit to England in the autumn of 1877; and I owe thanks for such privileges to Lord Spencer of Althorpe House; Sir Charles Isham of Lamport Hall, Northamptonshire; Mr. Charles Edmonds of London; Mr. George Bullen, Keeper of the Printed Books, British Museum; Mr. W. Aldis Wright of Trinity College, Cambridge; Rev. H. O. Coxe, Bodley's librarian, Oxford; the Rev. W. H. Milman of Sion College, London; and to the authorities of the Shakespeare Library at Stratford, the Shakespeare Memorial Library at Birmingham, and the University Library at Edinburgh. I have likewise been favored with descriptions of their copies from Mr. James Lenox and Mr. Almon W. Griswold of New York; Mr. Horace Howard Furness of Philadelphia; Mr. E. G. Asny of Chicago; and Mr. C. Fiske Harris of Providence. I have examined the copies in the Barton Collection in the Boston Public Library. I am also indebted to the Isham reprint of the *Venus* and *Adonis* of 1590 in which Mr. Edmonds gives useful information regarding thirteen early editions of that poem. I can testify to the substantial reproduction in this reprint of the unique original at Lamport Hall, which is so carefully preserved in its rare and curious old library, whose promised catalogue will yield, I doubt not, some new surprises to bibliographers, when it comes from Mr. Edmonds's hands. I am also under obligations to J. O. Halliwell-Phillips, Esq., of Brighton, England.

VENUS AND ADONIS.

1593. *Venus and Adonis.* *Vilia miretur vulgus: mihi flauus Apollo | Pocula Castalia plena ministret aqua.* [A device of an anchor.] London Imprinted by Richard Field, and are to be sold at the signe of the white Greyhound in Paules Churchyard. 1593.

Description. Twenty-seven leaves in quarto. It is distinguishable from the 1594 edition by having no period after London. Entered in the Stationers' Registers, April 13, 1593.

The Text. Furnivall says, "The first edition is very well printed and was perhaps seen through the press by Shakespeare himself." The editors of the Cambridge edition attest its "remarkable accuracy," and think it was printed, "doubtless from the author's own manuscript." Grant White says it is printed "with almost absolute purity."

One Copy Known. In the Bodleian with the Malone collection; size, $7\frac{1}{2} \times 5\frac{1}{2}$ inches; has written in it, "Bought of Mr. William Ford, bookseller, in Manchester, in August, 1805, at the enormous price of £25, nor is any other copy known to exist." Thomas Rodd, the bookseller, says in a MS. note to Halliwell's *Shakespeareana*, 1841, "No copy has ever been sold by public sale . . . would most probably sell for £150, were one to occur." A very

considerable increase of this estimate would have to be made at this day.

Reprints. In 1866 it appeared in the Ashbee-Halliwell series of traced lithographic fac-similes, and a fac-simile of the title is given in Halliwell's folio edition of Shakespeare, xvi. p. 378. Collier and other editors have followed this edition.

1594. *Venus and Adonis.* *Vilia miretur vulgus: mihi flauus Apollo | Pocula Castalia plena ministret aqua.* [A device of an anchor.] London. Imprinted by Richard Field, and are to be sold at the signe of the white Greyhound in Paules Churchyard. 1594.

Description. Title and dedication, two leaves; text, B to G in fours, and H1; twenty-seven leaves. F1 has no signature mark. Halliwell says, a close examination is necessary to distinguish this edition from the preceding.

The Text. Collier says it "is a distinct reimpression: affords some various readings, and not a few important confirmations of the correctness of the older text, corrupted more or less in all subsequent editions." Charles Edmonds says that its new readings are "always improvements, which seem to show that this impression had the benefit of the author's revision."

Three Copies Known. 1. In the Grenville Collection, no. 11180, British Museum; size, $6\frac{1}{2} \times 4\frac{1}{2}$ inches; bound by Clarke in olive morocco, elaborately tooled, with the Grenville arms on the sides; sound in condition, but with here and there throughout small imperfections mended, and tears pieced out in fac-simile. This copy bears the following note in Grenville's hand,—"Shakespeare, *Venus & Adonis*, 4^o, Field, 1594. This poem was first printed in 1593, and is of the greatest rarity. This second edition is I believe of no less rarity. The only copy that I have ascertained, is that which was bequeathed by Mr. Caldecott to the Bodleian library, and that copy sold by Pickering in 1843, which I sold again to buy this preferable copy." Grenville gave £116 for it at Jolley's sale, in 1844, that collector having bought it in Lancashire "for a mere trifle."

2. In the Bodleian; size $6\frac{1}{2} \times 4\frac{1}{2}$ inches; bequeathed by Thomas Caldecott in 1833. See *Annals of the Bodleian Library*.

3. In Henry Huth's collection; size, $7\frac{1}{2} \times 4\frac{1}{2}$ inches, called "the finest known"; bought at George Daniel's sale, in 1864, for £240. At the same sale Halliwell bought a single leaf of this edition for £2 1s.

Reprint. In the Ashbee-Halliwell series of traced lithographic fac-similes.

1596. Venvs and Adonis. Vilia miretur vulgus: mihi flauus Apollo | Pocula Castalia plena ministret aqua. [A device of an anchor.] Imprinted at London by R.[ichard] F.[ield] for Iohn Harison. 1596.

Description. Without pagination. Twenty-seven leaves: sig. A to Diiij, in eights. The dedication, "To the Right Honorable Henry Wriotheslie, Earle of Southampton, and Baron of Litchfeld," is subscribed "Your Honors in all dutie, William Shakespeare."

The Text. It has some changes from previous editions, both errors and improvements, all "doubtless due to the printer."

Two Copies Known. 1. In the British Museum; press mark, C. 21. a; size, $4\frac{1}{8} \times 2\frac{1}{8}$ inches; in splendid condition, with a few stains at the end, and no imperfections; bound in half-olive morocco, red cloth sides, in russica case.

The following MS. notes are in the book:—
"This most precious volume is from the Libraries of y^e late W. [Sir William] Bolland and B. H. Bright, Esq^{rs}. At Mr. Bolland's sale [in 1840] (at y^e rooms of Messrs Evans) it was bought by Mr. Bright for £91. At Mr. Bright's sale [no. 5067] (at y^e rooms of Messrs Sotheby & Co.) on 7 April, 1845, I became the Purchaser for y^e sum of £91: 10: 0.

"GEORGE DANIEL
"Canonbury Square."

"There are three marzes wanting the Venus, one will I fear putt hard at her. I do not think there is any likelihood of your getting her under £101. I know that it will not go under £91. 10^s 0^d.

T. [THOMAS] R. [RODD.]

On the reverse of this last is written:—"This was written to me in the Sale Room by Mr. Thomas Rodd, on the morning of the sale. My competitor was the Honb. Thos. Grenville.

"GEORGE DANIEL."

At the Daniel sale in 1864, it cost the British Museum £336.

2. In the Bodleian; size, $4\frac{1}{2} \times 3$ inches. The Daniel Catalogue says it is "cut into the headline, and is inferior" to the one in the Daniel Collection, no. 1, above.

It originally formed part of a volume of old poetical varieties, sold at Dr. Bernard's sale in 1698 for 1^s. 3^d.; and Thomas Warton bought it for 6^d. in 1760 out of some rubbish in a broker's shop. His brother, Joseph Warton, gave it to Malone, who said of the volume in 1791, "It could now at auction undoubtedly be sold for three or four guineas." Malone took it apart, and placed the Venus and Adonis "with my other very early editions of Shakespeare's pieces." See Prior's Malone, p. 179. With his collection, it passed into the Bodleian.

1599. Venvs and Adonis. Vilia miretur vulgus: mihi flauus Apollo | Pocula Castalia plena ministret aqua. Imprinted at London for William Leake, dwelling in Paules Churchyard at the signe of the Greyhound. 1599.

Description. Twenty-seven leaves.

The Text. Mr. Edmonds says, "A few corrections are introduced; but they bear no proportion to the misprints."

One Copy Known. In September, 1867, Mr. Charles Edmonds (of the then house of Willis and Sotheran, booksellers in London) went to Lamport Hall in Northamptonshire, the seat of Sir Charles Isham, Bart., to make a professional inspection of the library in that house, and having accomplished his purpose, and while waiting for the departure of a train, was shown a lot of old books in a lumber room, long undisturbed, and there discovered a volume, "wonderfully clean and fresh, bound in the wrapping vellum of the period, with strings, and with no outward indication of its contents." The volume measured $4\frac{1}{2} \times 3\frac{1}{2}$ inches, and proved to contain under one cover, this 1599 edition of the Venus, the Passionate Pilgrim of the same year and other tracts. The book is now at Lamport; and

was exhibited in 1877 at the Caxton celebration in London, Class D, 1492.

See Edmonds's letter to the London Times; the Gentleman's Magazine, 1867, pp. 608, 785; The Bookseller, December, 1867, p. 1254 and January, 1869, p. 5; Allibone's Dictionary, p. 2008, etc.

Reprint. In 1870, a fac-simile reprint of the above volume was issued under the editorial care of Mr. Edmonds, who furnished an introduction. The edition was limited to 131 copies, of which 25 were on large paper, and six on vellum. The large paper copies are now worth from £3 to £4.

?1600. Venus and Adonis. . . . Printed by I. H. for Iohn Harison. 1600.

Description. The above title is from a MS. title to the copy named below. Twenty-seven leaves in small octavo. Halliwell and Edmonds claim the date is an error, because Harison had sold the copy-right to Leake, four years before.

The Text. The editors of the Cambridge edition think it is printed from the 1596 edition. Mr. Edmonds says, the 1599 edition intervened. W. C. Hazlitt says it is neither the 1599 nor the 1602 edition. The Cambridge editors say it has many "erroneous readings, due, it would seem, partly to carelessness and partly to wilful alteration, which were repeated in later copies."

One Copy Known. In the Bodleian: with MS. title; size, $4\frac{1}{8} \times 2\frac{1}{8}$ inches; bound with the Lucrece of 1600 and other tracts; formerly Malone's, and given to him by Farmer.

1602¹. Venvs and Adonis. Vilia miretur vulgus, mihi flauus Apollo | Pocula Castalia plena ministret aqua. [A printer's device, — A square frame, surrounding a globe, with a skull and wings above it, and above this an hour-glass, with an open book behind the hour-glass, on which is inscribed, *I live to dy—I dy to live.*] Imprinted at London for William Leake, dwelling at the Signe of the Holy Ghost, in Paules Churchyard, 1602.

Description. Without pagination; twenty-seven leaves; sig. A to D3 in eights. The dedication "To the Right Honorable Henry Wriotheslie, Earle of Southampton, and Baron of Lichfield" is subscribed, "Your Honours in all duety William Shakespeare."

The Text. It is thought to have been printed from the previous edition. The editors of the Cambridge edition say it is superior to the other edition of this year in the Bodleian, in typography and in accuracy.

One Copy Known. In the British Museum; press-mark, C. 21. a: size, $5\frac{1}{8} \times 3\frac{1}{8}$ inches; bound in yellow morocco; condition, firm, on thick paper, but rather dirty and mended in a few places; with "G. Steevens" stamped on reverse of title.

This book bears the following notes:—

"Bought at the auction of Dr. Chauncy's library, [no. 1745]. April 15, 1799, for 0: 8: 0." Also "of this edition of Shakespeare's Venus and Adonis, I have met with no other copy. G. [George] S. [Steevens]."

"Bought at Mr. Steevens's sale, May 21, 1800 for 1. 11. 6, no. 1361. J. B. [indley]." At Bindley's sale, no. 1114, in 1819, it brought £42.

"Bought at Mr. Strettell's [Strettell's] sale, 13 May, 1841, at Evans's lot 350, for £40: 8: 6. At Mr. Bindley's sale this copy was sold for more than £40. GEORGE DANIEL. Canonbury." It is said to have been bid in at Strettell's sale for £26 5s., and subsequently sold to Daniel for £40.

"No other copy of this excessively rare edition is known. Mr. Evans was wrong in stating that a copy was in the Malone collection in the Bodleian Library. No copy is mentioned in the catalogue, nor is there one to be found there.

"GEORGE DANIEL."

On Sig. B1 is the following MS. note:—"To bid the wind a bace. Base or Bace,—a sport used among country people

called Prison Base, in which some persue [*sic*] to take others Prisoners — and therefore To bid the wind a Base, is by using the Language of y^e sport To take the wind Prisoner."

1602². Venvs and Adonis. Vilia miretur vulgus: mihi flavus Apollo | Pocula Castalia plena ministret aqua. [A similar printer's device to 1602¹.] Imprinted at London for William Leake, dwelling at the signe of the Holy Ghost, in Paules Church-yard. 1602.

Description. Beside the slight variation in the typography of the title from the other editions of 1602, there are said to be differences in the text.

One Copy Known. At Shirburn Castle, Oxfordshire, the seat of the Earl of Macclesfield.

1602³. Venvs and Adonis. Vilia miretur vulgus, mihi flavus Apollo | Pocula Castalia plena ministret aqua. [A printer's device, — a hand out of a cloud grasping an anchor, with the motto *Anchora Spei*.] Imprinted at London for William Leake, dwelling at the Signe of the Holy Ghost, in Paules Church-yard. 1602.

Description. In small octavo; twenty-seven leaves.

One Copy Known. In the Bodleian; size, $5\frac{9}{16} \times 3\frac{1}{8}$: has autograph of R. Burton, author of the *Anatomy of Melancholy*. Macray, *Annals of the Bodleian*, p. 67, would seem to imply that it came by bequest direct from Burton.

1616. An edition of this date is mentioned by Dyce; but I find no trace of it.

1617. A copy of an edition of this date is, according to Bohn, in the Bodleian, "Printed for W. B." *i. e.* William Barrett; and the *Annals of the Bodleian*, p. 247, says it was received in 1833 from Thomas Caldecott.

1620. An edition, "Printed for I. P." *i. e.* John Parker; in eighteen-mo, twenty-seven leaves.

Copies. The editors of the Cambridge edition say, "a copy [size $4\frac{1}{4} \times 3\frac{3}{8}$ inches] exists in the Capell Collection. Dr. Bandinel also purchased one for the Bodleian, but it cannot be found."

1627. Venus and Adonis. Vilia miretur vulgus, mihi flavus Apollo | Pocula Castalia plena ministret aqua. Edinbvrgh, printed by Iohn Wreittoun, and are to be sold in his Shop a litle beneath the Salt Trone. 1627.

Description. In small octavo, twenty-two leaves. Title and pages 5-46, the latter misprinted 47. The pagination of p. 13 is printed above the first word of the page on the left.

The Text. The editors of the Cambridge edition think it was printed from a MS. copy of the edition of 1602, into which several emendations had been introduced agreeing with the earlier editions. Halliwell says, "It is the only early impression of any of Shakespeare's works ever printed out of England."

Two Copies Known. 1. In the British Museum; press-mark, C. 21. a.; size $5\frac{1}{8} \times 3\frac{3}{8}$ inches; bound in calf; in poor and soiled condition; title cropped and inlaid, and several leaves repaired; has book plate of George Chalmers.

It is dated by error 1607, in the *Chalmers Catalogue* in 1842, Part II., no. 553, when it sold for £37 10s.; and by error again at Bright's sale, in 1845, no. 5068, it was called "unique," and brought £35, when it passed into the British Museum. See *Life of Archibald Constable*, I. p. 108.

2. In the library of Almon W. Griswold, New York City. Edmonds says, "It had been found by

a country bookseller in a lot of worthless books at a sale," and was no. 61 in a sale at Sotheby's, March, 1864, and brought £115. It is described as "the only perfect copy known, uncut, has leaf A1, which is not in the Chalmers copy."

Reprint. Halliwell in his *Handlist*, 1859, mentions a unique fac-simile in his possession.

1630¹. Venus and Adonis. . . . Printed by J. H., and are to be sold by Francis Coules. 1630.

Description. In small octavo, twenty-seven leaves.

One Copy Known. In the Bodleian; size, $4\frac{1}{8} \times 3\frac{1}{8}$ inches; found among Anthony à Wood's books and removed from the Ashmolean Museum to the Bodleian.

Reprint. In Lintot's edition of the *Poems*, 1709, this poem purports to follow an edition of 1630, though in some of the copies the date is given 1609.

1630². A copy in small octavo, twenty-seven leaves; size $4\frac{1}{4} \times 2\frac{1}{8}$ inches; with a MS. title giving this date is in the Bodleian. The text differs from the preceding edition; and the editors of the Cambridge edition say it is earlier than the 1636 edition.

1636. Venus and Adonis. Vilia miretur vulgus, mihi flavus Apollo | Pocula Castalia plena ministret aqua. [Woodcut of a Cupid.] Printed by I. H. [arrison], and are to be sold by Francis Coules in the Old Bailey, without Newgate. 1636.

Description. Sig. A to C in eights; D three leaves; twenty-seven leaves in all.

Copies. 1. In the British Museum; press-mark C. 21. a.; size, $4\frac{1}{8} \times 3\frac{3}{8}$ inches; bound in calf; badly stained and soiled, and a few leaves mended. This copy was sold at Hibbert's sale, in 1829, for £1 14s.

2. A copy sold at Sotheby's, 1856, no. 163, for £49 10s., to Henry Stevens, who rebound it and sold it again, August, 1857, no. 556, at Sotheby's, for £56.

1675. Halliwell speaks of an edition of this year as a Chapbook, "a quaint looking, diminutive volume of extreme rarity."

Copies. Bohn says there was one in the Nassau sale, 1824, which brought £2 5s.

One is named in the Bodleian catalogue, but the editors of the Cambridge edition say it cannot be found.

There was not after this date any edition of the *VENUS AND ADONIS*, until it made part of the collective edition of the poems of Shakespeare, published by B. Lintott of London in 1709 or 1710. In this, of which there were two issues, with variations of main and subordinate titles, the dates of 1609 and 1630 are given as the separate titles of this poem, as if editions of these dates were followed, but probably without warrant.

LUCRECE.

1594. Lvrece. London. Printed by Richard Field, for Iohn Harrison, and are to be sold at the signe of the white Greyhound in Paules Church-yard. 1594.

Description. In quarto, forty-seven leaves, without pagination. It was entered upon the Stationers' Register, May 9, 1594.

The Text. Collier, in his *Reasons for a New Edition*, 1842, says he has collated the Malone,

Devonshire, Caldecott, and two other copies, and found variations in all. Furnivall says, "Each quarto is taken from the one before it."

Copies. 1. In the British Museum, Grenville Collection, press-mark, 11178 Grenv.; size $6\frac{1}{4} \times 5$ inches; bound in morocco, finely tooled; in very good condition. The Grenville Catalogue says: "The last leaf, containing the two last stanzas, has been reprinted from Malone's copy." Other copies have come to light since Mr. Grenville wrote in this copy, "only two other copies have been ascertained, one at the Bodleian, having been Malone's, and a second purchased by Mr. Daniel of Islington." Grenville's arms are stamped on the sides, and it was bought by him at the Combes sale in 1837.

2. In the British Museum; press-mark, C. 21. c; size, $7 \times 4\frac{1}{8}$ inches; bound by Hayday in maroon morocco; of firm condition, several leaves repaired; was no. 5069 in the Bright sale in 1845, bringing £58.

The Museum Catalogue has this note: "On the recto of A2 is the dedication to the Earl of Southampton, and on verso of the same is the argument. Some changes were made in this poem by the author, or at his instance, whilst the sheets were going through the press. As, for example, in some copies the following couplet occurs:

*And every one to rest him self betakes
Same thieves, and cares, and troubled minds that wakes,—*
corrected in this copy thus:

*And Everie one to rest them selves betake
Same theves, and cares, and troubled minds that wake."*
Furnivall says, "The first edition was probably seen through the press by Shakespeare himself."

3, 4. In the Bodleian, — one Malone's; the other Thomas Caldecott's, received in 1833. See *Annals of the Bodleian*, p. 247.

5, 6. etc. In the Devonshire Collection. In Sion College, London Wall. The Daniel copy in 1864 brought £157 10s. The Tite copy, found in a volume of law tracts in the country, brought £110 in 1874. Bohn reports George Holford as having paid £100 for a copy. In 1840 Thomas Rodd reported the Baron Bolland copy, otherwise the Lincoln Chapter copy, as a most beautiful copy, likely to sell for £100; and Rodd the same year, in advertising a copy in his catalogue, no. 3103, said, "no perfect copy had ever occurred at public sale, and only three perfect copies were known," and in May, 1841, this copy was sold for £105.

Capell's copy is missing from the collection in Trinity College.

Reprint. One of the Ashbee-Halliwell series of traced lithographic fac-similes. Halliwell gives a fac-simile of the title in his folio edition of Shakespeare, xvi. p. 278.

1596. An edition of this year is mentioned only by Malone.

1598. The Rape of Lucrece. . . . Printed by P. S. for Iohn Harrison. 1598.

Description. In 18mo. Title, dedication, argument; text A iiii to E ii, and two pages, — in all thirty-six leaves.

One Copy Known. In the Capell Collection, Trinity College, Cambridge.

1600. The Rape of Lucrece. . . . Printed by I. H. for Iohn Harrison. 1600.

Description. In 24mo, thirty-six leaves.

Copies. In the Bodleian, Malone Collection; given to Malone by Farmer.

1602. An edition of this year is mentioned only by Malone.

1607. The Rape of Lucrece. . . . Printed by N. O. for Iohn Harison. 1607.

Description. In small octavo, thirty-two leaves.

Copies. Bohn says there are copies in the Capell and Bridgewater Collections.

? **1610.** Halliwell has or had a copy, without title, which he puts about this date, and certainly before the 1616 edition. Hazlitt in his *Early English Literature* says it has not yet been described.

1616. The Rape of Lucrece. By Mr. William Shakespeare. Newly reuised. London: Printed by T. S. for Roger Jackson, and are to be solde at his shop neere the Conduit in Fleet-street. 1616.

Description. In eights, A to D. A4 is wrongly marked B4. Thirty-two leaves.

The Text. Malone says, "It is the most inaccurate and corrupt of the ancient copies."

Copies. 1. In the Lenox Library, New York; cut close at top and bottom.

2. In the British Museum; press-mark, C. 34. d. 44; size $5\frac{1}{4} \times 3\frac{3}{4}$ inches; bound by Bedford in red morocco; condition firm, but dirty, many leaves pieced, last five made perfect by fac-simile; acquired, 5 April, 1858. Perhaps the copy sold at Sotheby's, May, 1856, five leaves imperfect, £23 10s.

3. In the Bodleian; received from Thomas Caldecott in 1833.

Rodd held a copy in 1837 at £4 4s., with the print cut into.

1624. The Rape of Lucrece. By Mr. William Shakespeare. Newly reuised. London, Printed by I. B. for Roger Jackson, and are to be sold at his shop neere the Conduit in Fleet-street. 1624.

Description. A to D in eights. Sig. A4 is wrongly marked B4. It is believed by Halliwell to be the 1616 edition with a new title.

Copies. 1. In the British Museum, Grenville Collection; press-mark, 11179 Grenv.; size, $5\frac{1}{4} \times 3\frac{3}{4}$ inches; bound in green morocco; in good condition except title and last leaf, and few head-lines cut into; Grenville's arms stamped on the sides.

2. In P. H. Frere's Collection; fine and clean; formerly belonged to Sir John Fenn, being the same sold in London a few years since from which the woodcut and imprint had been cut out, which fragment after a century was found by W. Aldis Wright among Sir John Fenn's cuttings, and replaced. Used by the editors of the Cambridge edition of Shakespeare.

There were copies in the Jadis sale, 1828, £3 3s.; Jolley sale; Bindley sale, £9; Lloyd sale, £6 8s. 6d.; auction, May, 1856, £54.

1632. The Rape of Lucrece. . . . 1632.

Two Copies Known. 1. In the Library of Corpus Christi College, Oxford.

2. In the library of Mr. Christie Miller of Britwell; was sold at Steevens sale, 1800, no. 1046 to Heber, 15s., and marked in Heber's Catalogue, viii. 873 (originally iv. 722, but missing when that part was sold). *Statement from Mr. W. Aldis Wright.*

Reprint. The Collection of Poems, printed for B. Lintot, purports in some copies to reprint this edition; and in others the special title gives 1609 as the date of the edition followed. Both kinds are in the Barton Collection, Boston Public Library.

1648. Fragmenta Aurea. A collection of all the Incomparable Peeeces written By Sir John Suckling And published by a Friend to perpetuate his memory. Printed by his owne Copies. London, Printed [sic] for Humphrey Moseley, and are to be sold at his Shop at the Signe of the *Princes Arms* in *S. Pauls Church-yard*. 1648.

Description. In octavo. Title and "To the Reader," 3 leaves; "Poems, &c.," title and text, pp. 49; p. (50) blank. "Letters," title (reverse blank), pp. (51 & 52); text, pp. 53-119; reverse of 119 blank. Thus far, though with independent titles, the signatures and pagination are continuous. Then come three plays, each, with title, signatures and pagination, independent: Aglaure . . . London, . . . 1648. Title, etc., (6) pages, text 82 pp. The Goblins . . . London, . . . 1648. Title and text, 64 pages. Brennoralt . . . London, MDCXLVIII. Title, &c., (4) pages. Text 52 pp. Facing the general title is a portrait by Marshall.

On page 29 of "Poems, &c.," will be found "a Supplement of an imperfect Copy of Verses of Mr. Wm. Shakespeare, By the Author." These verses correspond in good part with the stanza in Lucrece, beginning "Her lily hand her rosy cheek lies under," and the next following, at the end of which in the margin, "Thus far Shakespeare," then two more stanzas by Suckling. See Malone's Shakespeare, 1821, vol. 20, *Poems*, p. 125; also the 1766 edition of Suckling, p. 28.

Copies. In Harvard College Library; in that of C. Fiske Harris of Providence, R. I., etc. See Bohn's Lowndes, p. 2543, for sales of this and subsequent editions.

1655. The Rape of Lucrece, Committed by Tarquin the Sixth; and the remarkable judgments that befel him for it. By the incomparable Master of our English Poetry, Will: Shakespeare Gent. Whereunto is annexed, the Banishment of Tarquin: Or, the Reward of Lust. By J. Quarles. London, Printed by J. G., for John Stafford, in George-yard, neer Fleet-bridge, and Will. Gilbertson, at the Bible in Giltspur-street, 1665.

Description. In 16mo. The frontispiece has a medallion of Shakespeare in the centre. Title Sig. A2. Dedication to N. Massey, one leaf. The argument, one leaf. The text B to G4, in eights. The second title is on Sig. F5. The frontispiece is rare and only a few copies have it.

Copies. 1. In the Boston Public Library, Barton Collection; cut close; bound in green morocco by Mackenzie; and has the portrait. In binding pp. 5-8 are misplaced. Rodd describes it, Oct. 5, 1835, "The title-page torn and laid down. The frontispiece inlaid. Several leaves cut into the side margin and dirty. The back margins sewed in. Notwithstanding all these drawbacks, I would advise your taking it, as you may never meet with another, especially as it has the frontispiece. This copy and one other, Mr. Field's, if it be not the same, being the only ones that have occurred for sale."

2. In the collection of E. G. Asay of Chicago; bought at the Daniel sale in 1864, £40 19 s.

3. In the British Museum, Grenville Collection; press-mark, 11432 Grenv.; size $5\frac{1}{8} \times 3\frac{1}{8}$ inches; bound in olive morocco; condition, soft and stained; frontispiece wanting; leaves mended throughout; Grenville's arms on the sides.

4. In the British Museum, King's pamphlet Collections; press-mark, E1472; size $5\frac{1}{8} \times 3\frac{1}{8}$ inches; bound in calf; good condition; frontispiece wanting; has written above the imprint "Aug: 31;" and this day is given in the Catalogue as the particular day of publication.

5. In the British Museum; acquired 3 April, 1865; press-mark, C. 34. a. 45; size $5\frac{1}{8} \times 3\frac{1}{8}$ inches; bound in red morocco; stained and closely trimmed; very brilliant impression of frontispiece.

This copy has the following note in it by Halliwell: This is one of the commonest editions of Shakespeare without the original frontispiece, and one of the rarest with. I cannot have seen less than thirty copies, and the only one of them with frontispiece was the one sold at Sotheby's (now Mr. Tite's) a

few years ago for I think £26 5s., certainly thereabouts, and the verses at the bottom of the frontispiece were also cut into as in this copy. This impression is a most brilliant one. The medallion portrait of Shakespeare in this frontispiece is beyond all question the rarest of all the engraved portraits of Shakespeare. There are two copies of the book in the British Museum, neither having this original frontispiece.

A copy, perhaps this one, "with the portrait" brought at Halliwell's May, 1856 sale, £25 10s.

6. In the Bodleian, received from Caldecott in 1833.

7, etc. In Hibbert's sale, no. 7388, £2 6s.; in Field's sale, no. 442, £3 19s.; in Utterson's sale, no. frontispiece, and bottom line of title cut off, £4 4s.

THE PASSIONATE PILGRIM.

1599. The Passionate Pilgrime. By W. Shakespeare. At London printed for W. Iaggard, and are to be sold by W. Leake at the Greyhound in Paules Churchyard. 1599.

Description. In 16mo, thirty leaves, printed only on one side of the leaf, excepting the last three leaves. On the 18th is SONNETS TO SUNDRY NOTES OF MUSICK.

The Text. Dyce says that it appears to have been given to the press without Shakespeare's consent or even knowledge, and how much of it proceeded from his pen cannot be distinctly ascertained. Halliwell calls it "clearly an unauthorized and surreptitious collection." Halliwell and Edmonds have examined each piece in the collection to assign its author, and out of the twenty-one pieces, five only have incontestably been traced to Shakespeare; eleven have no claim whatever, and five are allowed to other authors. Three of the poems, "As it fell upon a Day," "If Music and sweet poetry agree," and "Whilst as fickle fortune smiled," first appeared in Richard Barnfield's "Encomium of Lady Pecunia," 1598, and were assigned to him, though Collier contended they were Shakespeare's. See London Athenæum, May 17, 1856; Notes and Queries, July 5, 1856. Mr. Edmonds, in his preface to his reprint, again urges the claims of Barnfield as regards two of the pieces against the objections of Collier.

Two Copies Known. 1. Capell's showing marks of use, and the date to Sonnets cut off, bound up with the Venus and Adonis of 1620, has a note which shows it cost a former owner, about the middle of the last century, three half-pence. Halliwell, in his "Shakespeare Study Books," 1876, p. 50, speaks of "a fac-simile tracing from the original copy in Trinity College Library," as being in his possession. 2. Sir Charles Isham's, a fine copy, measuring 4 5-8 x 3 1-8 inches, discovered in 1867 at Lamport Hall.

Reprints. B. Lintot's "Collection of Poems, being all the Miscellanies of Mr. W. Shakespeare," 1709, gives this edition as the one reprinted in some copies, while the date on the reprinted title in others is 1609. Collier reprinted from this edition compared with the 1612 edition.

The Isham reprint, edited by Charles Edmonds, was issued in 1870. See the Venus and Adonis of 1599.

1604. A second edition is presumed from the edition of 1612 being called "third edition," and Collier gives this as a possible date, but no copy has ever been discovered.

1612. The Passionate Pilgrime. Or Certaine Amorous Sonnets, between Venus and Adonis, newly corrected and augmented. By W. Shakespeare. The third edition. Whereunto is newly added two Loue-Epistles, the first from Paris to Hellen, and Hellen's answer backe againe to Paris. Printed by W. Iaggard.

The book contains Thomas Heywood's version of Ovid in the "Loue-Epistles," and it is said that on Heywood's remonstrance the printer cancelled this title-page, and substituted another, omitting the words "By W. Shakespeare," and for this reason part of the edition is without author's name, while the copy in the Bodleian, which was Malone's, has both titles, and is the only one known with the two titles.

Description. In 16mo. Sixty-two leaves.

SONNETS.

1609. Shake-speares Sonnets. Neuer before Imprinted. At London By G. Eld for T. T., and are to be sold by Iohn Wright, dwelling at Christ Churchgate. 1609.

The copies more commonly have the name of "William Aspley" in place of that of John Wright in the imprint.

Description. Sig. A, two leaves; text B to K in fours; L, two leaves; forty leaves in all. The book contains 154 sonnets ending on the recto of K₁, and on the verso begins "A louers Complaint. By William Shakespeare."

Copies. 1. In the collection of Almon W. Griswold of New York City. This copy sold at Steevens's sale in 1800 for £3 19s.; resold Roxburghe, in 1812, £21; again in the Daniel sale, in 1864, £225 15s. when it was described as "large, sound, beautiful and perfect, and one of only two perfect copies known, with the imprint" of John Wright.

2. In the British Museum; press-mark, C. 21. c; size $7\frac{1}{8} \times 5\frac{1}{8}$ inches; bound in yellow morocco; in very fine condition except that title and last leaf are extremely dirty; has several mends. *Wright imprint.*

Collier speaks of this copy being acquired by the Museum in 1845, — the year of Bright's sale, and it is probably the copy in that sale, described as title soiled, large and sound, which brought £34 10s.

3. In British Museum, Grenville Collection; press-mark, 11181 Grenv.; size, $6\frac{1}{8} \times 4\frac{1}{8}$ inches; bound in red morocco; condition extremely fine, few stains; Grenville's arms on sides. *Aspley imprint.*

4. In the Bodleian; date cut off; received in 1833 from Thomas Coldecott. *Wright imprint.*

5. In the Bodleian, Malone Collection. *Aspley imprint.*

6. In the Library of Trinity College, Cambridge, — Capell's Collection; very imperfect. *Aspley imprint.*

7. In Earl Spencer's Collection at Althorpe House. Bought in 1798 at Dr. Farmer's sale, £8. It has written in it, "To my very kind friend," and this has been claimed to be in Shakespeare's hand. It was exhibited at the Caxton Celebration in London, 1877. *Aspley imprint.*

8. In the Earl of Ellesmere's Collection at Bridge-water House, London. It was sold, erroneously supposed to be duplicate, from this library in 1800, and bought back at Chalmers' sale, 1842, no. 935, for £105. — Rodd speaking of it at that time to Mr. Barton, as "a most beautiful copy." *Aspley imprint.*

9. In the collection of Henry Huth, Kensington; bought at Halliwell's sale, 1858, no. 321, £154 7s. It was discovered the previous year by Professor Mommsen "in the dispersed Bentinck Library at Varel," near Oldenburg. See Westminster Review, July, 1857. Probably the copy described by Halliwell in 1857, as "quite perfect, firm and genuine throughout," which he had taken "out of a volume of tracts collected in 1728, which was discovered in a library on the Continent," and Collier speaks of this "Swiss copy" as "peculiarly valuable, since there is but one copy in England, with this imprint, and from that the date has unfortunately been cut away." *Wright imprint.*

10. Brought at Tite's sale, 1874, £15 10s.; at Halliwell's, 1856, £41; at Utterson's, 1852, £30 5s.; at Jolley's, 1844, £33. *Aspley imprint.*

Dibdin in his Bibliomania, ii. 600, without going into particulars, says, "The history of the acquisition of the Jolley copy is one of singular interest; almost sufficient to add another day to a Bibliographical Decameron. The copy is in pristine condition, and looks as if snatched from the press." The title and dedication are represented, however, as in Harris's fac-simile.

11, etc. Bohn gives the sales additionally of other copies, which are not identified with either of those enumerated above. Bibliotheca Anglo-Poetica, £30; White Knights (Duke of Marlborough) in 1819, £37; Boswell in 1825, £38 17s.; Inglis, £40 19s.

Reprints. Lintot's type reprint in 1709, in "A Collection of Poems," etc. In vol. iv of Steevens's "Twenty Plays," 1766. Collier and others have reprinted from this edition.

A lithographic fac-simile of the Wright Copy, discovered by Mommsen, was made in 1857. In 1862, Lovell Reeve issued, under Staunton's direction, a fac-simile by photozincography of the Ellesmere (Aspley) copy.

In 1870 John Russell Smith issued an Aspley reprint "in the orthography and punctuation of the original."

There is a fac-simile of the title in Halliwell's folio edition of Shakespeare, xvi. p. 368.

POEMS.

1640. Poems: Written by Wil. Shake-speare. Gent. Printed at London by Tho. Cotes, and are to be sold by Iohn Benson, dwelling in St. Dunstan's Church-yard. 1640.

Description. Opposite the title is a portrait of Shakespeare. "W. M[arshall] sculpsit."

Title, one leaf; To the Reader, signed I. B., two pages; Poems by L. Digges, three pages; Poem by John Warren, one page; a second title, omitting only the date; sig. A1; text A2 to M4. At sig. L2 is "an Addition of some Excellent Poems."

Dr. Bliss had a leaf of this edition, with a contemporary manuscript note, showing that it was printed in 1639, and was sold bound for fifteen pence.

The Text. — It consists principally of translations, which are not Shakespeare's.

Contents. To the reader, by I. B.; Verses, by Leon Digges and John Warren; Poems by Will. Shakespeare Gent.; An addition of some excellent poems, to those precedent, of renowned Shakespeare, by other gentlemen: His mistress drawne, by B. I.; Herminde, by B. I.; To Ben Johnson, by F. B.; His mistress shade; Lavinia walking in a frosty morning; A sigh sent to his mistress; An allegorical allusion of melancholy thoughts to bees, by I. G.; The primrose; A sigh; A blush; Orpheus lute; Am I despised? Vpon a gentlewoman walking on the grasse; On his love going to sea; Aske me no more.

Of the composition of the volume, the forthcoming Catalogue of the Barton Collection, in the Boston Public Library, says:

The poems ascribed to Shakespeare are the Sonnets, with the exception of Nos. 18, 19, 43, 56, 75, 76, 96, 126, rearranged under various titles. Interspersed with them are the Lover's Complaint and the Passionate Pilgrim, together with the verses from As You Like It, commencing "Why should this dearest be." In addition to these are the following translations from Ovid: Cephalus and Procris, Menelaus was cause of his owne wrongs, Vulcan was Iupiters smith, The-Mynotaure, Achilles his comeclement of his sex, The epistles of Paris to Hellen, and Hellen to Paris. The last two were included in Jaggard's edition of The Passionate Pilgrim published in 1672, but Thos. Heywood, in his Apology for Actors, published in the same year, claims them as his own, and they are to be found in his Troja Britannica, printed in 1600. Lowndes says Some of these poems are copied from Thomas Heywood's General History of Women. Following these are Milton's Epitaph. On the death of Shakespeare, by W. B., and An elegie on the death of that famous writer and actor, M. William Shakespeare.

In the editions of Shakespeare's works published in 1710, 1714, 1725, 1807, 1810 (the last two in Boston) and of his Poems published in 1771, 1775, 1804, the poems ascribed to him in this edition are reprinted with the same arrangement and under the same titles, and also in other editions.

Copies. 1. In the Boston Public Library, Barton Collection; has the portrait, two titles, and preliminary leaves; is bound in dark blue morocco. Rodd, in sending it, wrote Dec. 13, 1839, that "the price will appear high, especially as compared with the prices in Lowndes, but I can readily dispose of it for the price, £8 18s. 6d., charged." Barton marked it, Feb., 1840, "Collated, perfect."

2. In the Collection of Horace Howard Furness of Philadelphia. It was Heber's, bringing at his sale in 1834, £2 3s., and cost the present owner £6 6s. "It has the portrait (but perhaps from another copy, being cut less at the top and bottom), and the first title-page. It lacks the two pages To the Reader, signed I. B.; the poems by L. Digges, three pages; and the Poem by John Warren, one page. The second title-page is in *fac-simile*, far away (says the owner) the best *fac-simile* I have ever seen. All the rest is perfect, very clean, and with measurably good margins; but the last four lines on the last page are added in MS., and at the foot of the page a note reads as follows:—"The MS. stanza at bottom of last page not in any printed copy—

Aske me no more whither doth run
When day is done the poasting sun;
For in your bright and sparkling eyes
[His fires remain in love's disguise].

Last line conjectured. — J. H."

3. In the Collection of Almon W. Griswold of New York City.

4. In the Collection of C. Fiske Harris of Providence, R. I.; size $5\frac{1}{4} \times 3\frac{3}{4}$ inches; has portrait, is clean, fresh, and perfect, and was bought at the Hosmer sale, in Boston, in 1861, for \$67, when it was bid off to S. S. Ryder, bookseller of Providence.

5. In the Lenox Library, New York City; has the portrait, and both titles.

6. In the British Museum, Grenville Collection; press-mark 11183, Grenv.; size $5\frac{1}{8} \times 3\frac{3}{8}$ inches; bound in red morocco; very fine condition; very brilliant impression of portrait; Grenville's arms inside each cover.

7. In British Museum; press-mark, C. 39. 2; size, $5\frac{1}{4} \times 3\frac{3}{4}$ inches; bound in yellow morocco; dirty and stained condition; portrait lacking.

8. In the Bodleian, Malone Collection.

9. In the Library of Trinity College, Cambridge, Capell Collection.

10. In the Shakespeare Library, Stratford.

11. In the Shakespeare Memorial Library, Public Library, Birmingham.

The following other copies and sales are recorded:—

1798. Farmer, with portrait, £1 6s. — 1819. Bindley, III, 1, 115, £5 15s. — 1824. Nassau, II, 1, 444, £3 13s. 6d. — 1824. Sir M. M. Sykes, £7. — 1828. Jadis, 26, £5 15s. 6d. — 1829. Hibbert, 7, 385, £6, 6s. — 1834. Heber, IV, without dated title, £2 3s. — 1837. Thorpe held one at £2 2s. — 1842. Rodd, very large, both titles, preliminary leaves, with portrait; a copy held at £6 6s. — 1844. Jolley, in original binding, £10 10s. — 1845. Rodd, large, with both titles and portrait, held at £12 12s. — 1845. Bright 5,073, large, with portrait, £15. — 1848. Field, 444, £2 5s. — 1849. Stowe, with portrait, £7 10s. — 1854. Gardner, £11. — 1858. Jos. Lilly, large, both titles, portrait, held at £21. — 1858. Halliwell, £5 7s. 6d. — 1859. Halliwell, imperfect, £2 18s. — 1860. Singer, dated title only, £20. — 1860. Crowninshield, with preliminary verses. — 1860. Mitford, 3, 144, portrait, £14 14s. — 1862. Halliwell describes a copy in his "Shakespeariana," with portrait, which cost him £12, from Ellis. — 1864. Daniel, £44. — 1864. Turner. — 1864. Mar. Sotheby, with portrait. — 1866. Willis and Sotheran, £2 10s. — 1874. Tite, £25 10s.; since held by Quaritch at £35. — 1875. Benzon, with portrait, measuring 5 3-8 inches high, £65. The next bid to buyer's was that of E. G. Asay, Chicago. — 1875. Quaritch held a copy, inscription beneath the portrait *fac-simile*, £36. — 1876. Halliwell, in his "Shakespeare-Study Books," p. 51, describes a copy in his possession as "with some curious very early MS. notes." — 1878. Dew-Smith, £62.

Reprint—Volume xiii. of Ewing's edition of the Plays of Shakespeare, Dublin, 1771.

CHESTER'S LOVE'S MARTYR.

1601. Robert Chester's Love's Martyr, or Rosalind's Complaint.

This is said to be the only work by another to which Shakespeare contributed under his own name; the poem in this case being "Threnos."

Two Copies Known. 1. Daniel's, sold in 1864 for £138 to Tite, and brought at Tite's sale in 1874, £68.

This copy bears the following note:

"This volume is of the greatest rarity. A copy was sold many years ago, and was purchased, I think, by Mr. Miller, for £68. The present is a very fine and perfect one. The date is not cut off, the title never having had one. The date, 1601, will be found at p. 165. At p. 171 is a poem, *Threnos*, by Shakespeare. Bound in his best style by C. Lewis. GEORGE DANIEL, *Cantebury*, 1838."

2. Mentioned in Daniel's note.

Reprint. There is an Ashbee-Halliwell *fac-simile* of the poem, with descriptive text; 10 copies made in 1865.

1611. This edition has the title, "The Annals of Great Brittain. . . . excently figured out in a worthy Poem. . . . London: printed for Mathew Lownes. 1611."

In quarto.

Lyte's copy, July 1849, sold for £40 10s.

no. 3 lacking

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BIBLIOGRAPHICAL CONTRIBUTIONS.

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No. 4



PIETAS ET GRATULATIO.

AN INQUIRY INTO THE AUTHORSHIP OF THE SEVERAL PIECES.

By JUSTIN WINSOR,
LIBRARIAN OF THE UNIVERSITY.

REPUBLISHED FROM THE BULLETIN OF THE LIBRARY OF HARVARD UNIVERSITY,
MARCH, 1879.

CAMBRIDGE, MASS.:
PRESS OF JOHN WILSON AND SON.
1879.

Already issued :

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems : a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michel Angelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.

PIETAS ET GRATULATIO.

AN INQUIRY INTO THE AUTHORSHIP OF THE SEVERAL PIECES.

BY JUSTIN WINSOR, *Librarian of the University.*

In 1760, while Holyoke was President of Harvard College, George the Second died, and George the Third succeeded to the throne. A few months later, at the instigation of Francis Bernard, the newly arrived royal Governor of the Province of Massachusetts Bay, who was desirous of having its principal institution of learning follow the example of the English Universities, the succeeding notice was posted in the College Chapel, Saturday, March 14, 1761:—

"PROPOSAL,

for a celebration of the Death of the late King, and the accession of his present Majesty, by members of Harvard College:—

"Six guineas are given for a prize, of a guinea each, to the author of the best composition of the following several kinds:—

- "1. A Latin Oration.
- "2. A Latin poem in hexameters.
- "3. A Latin Elegy in hexameters and pentameters.
- "4. A Latin ode.
- "5. An English poem in long verse.
- "6. An English ode.

"Other Compositions, beside those that obtain the prizes, that are most deserving, will be taken particular notice of.

"The Candidates are to be all gentlemen, who are now members of said College, or have taken a degree within seven years.

"Any Candidate may deliver two or more Compositions of different kinds; but not more than one of the same kind.

"That gentlemen may be more encouraged to try their talents upon this occasion, it is proposed that the names of the Candidates shall be kept secret, except those who shall be adjudged to deserve the prizes, or to have particular notice taken of their Compositions, and even these shall be kept secret if desired.

"For this purpose, such Candidate is desired to send his Composition to the President, on, or before, the first day of July next, subscribed at the bottom with a feigned name or motto, and, in a distinct paper, to write his own name and seal it up, writing the feigned name or motto on the outside. None of the sealed papers containing the real names will be opened except those that are adjudged to obtain the prizes or to deserve particular notice; the rest will be burned sealed."

It does not appear how far all the conditions of this call were met; but from the offerings was

gleaned at least a part of the contributions to a volume which was in typography the handsomest specimen of the art as yet produced in the Colonies. It was in quarto, 116 pages, and the title read:—

PIETAS ET GRATULATIO COLLEGII CANTABRIGIENSIS APUD NOVANGLOS. BOSTONI-MASSACHUSETTENSIIUM TYPIS J. GREEN & J. RUSSELL. MDCCLXI.

The date of publication seems to have been put back a year, since it was published under a vote of the Corporation, Jan. 5, 1762, which directed "that the Collection in Prose and Verse in several Languages compos'd by some of the Members of the College, at the Motion of his Excy, our Governr, Francis Bernard, Esq, On Occasion of the Death of his late Majesty, & the accession of his present Majesty, King George the Third, be printed; and that his Excy be desired to send, if he shall judge it proper, a copy of the same to Gr. Britain, to be presented to his Majesty, in the Name of the Corporation."

Bernard, as Governor, had a seat at the board of Overseers, and it is uncertain whether he or Lieutenant-Governor Hutchinson composed the dedication to the King, which, notwithstanding the terms of the vote above quoted, is the only prose contribution in the volume. President Quincy, speaking of this address, says: "Its style and turn of thought indicate the politician rather than the student, and savor of the senate chamber more than of the Academy." In May, 1763, Jasper Mauduit, the Agent of the Province in London, mentions "the presentation to his Majesty of the book of verses from the College;" but nothing is known of any expression of acknowledgment on the part of the King. A copy, for which the claim was made that it was the one sent to the King, was No. 926 in the Odell Sale Catalogue, New York, 1873, Part I.; it had G. REX surmounted with a crown, stamped on the back in six places. An ornament of some kind had been cut out on both sides of the cover. There were no marks of authorship attached to any of the pieces. A copy mentioned, No. 1767, in *The Catalogue of the American Library of the late Mr. George Brinley*, First Part, 1879, is described as bound in "old red morocco, sides with broad gilt borders, and the royal arms in the centre." Mr. Brinley had written in it: "This is one of the very few copies on thick paper, intended for presentation to the Royal Family." Another copy with a similar claim is marked **N** in the following list.

It is said that copies on thicker paper were sent to England for the members of the Royal Family, and very likely entrusted to the care of Thomas Hollis, to be suitably bound, since the copy now in the "King's Collection" in the British Museum—the library of George III., transferred by George IV. to that repository—bears in the ornament representing Britannia, an impression from a die which Hollis seems to have had cut for his own use, and a number of books presented by Hollis to the College Library bear this same device on their covers. Of this copy, Mr. G. W. Porter, the Assistant Keeper of the Printed Books in the Museum library, writes to me as follows, — mentioning other copies at the same time: "We have three copies of the book in the Museum,—one in George the Third's library; one presented in 1763 by Thomas Hollis, Esq.; and one purchased in a collection of tracts. None of them, however, have any inscription or any mark whatever. The King's copy is a fine, tall one, handsomely bound in red morocco, having the royal arms on the sides, and the figure of Britannia surmounted by a star, in each of the panels at the back. The arms and ornaments differ from those usually employed in the King's library, and in all probability the book was presented bound. It may very likely have been the one voted by the Corporation of the College."

President Holyoke also sent a copy to this same Thomas Hollis, in London, the well-known friend and benefactor of the College, and his letter and Hollis's reply are preserved in the Memoirs of Hollis, p. 101, under date Sept. 25, 1762. Holyoke calls it "an attempt of several young gentlemen here with us, and educated in this College, to show their pious sorrow on account of the death of our late glorious King, their attachment to his royal house, the joy they have in the accession of his present majesty to the British throne, and in the prospect they have of the happiness of Britain from the Royal Progeny which they hope for from his alliance with the illustrious house of Mecklenburg."

The Greek type used in Nos. 15, 16, and 18, was, according to Thomas, History of Printing, 1874, vol. i., p. 63, the gift of Hollis to the College about 1718. This was the only time it was used, and the font was destroyed on January 24th, 1764, when Harvard Hall and the Library were burned.

The *Monthly Review* for July, 1763, p. 22, in an extended and considerate notice of the book, says that the collection had not been advertised for sale in London, but that the *Review* had been favored with a copy of it; and closes its article as follows: "It must be acknowledged, after all, that this New England Collection, like other public offerings of the same kind, contains many indifferent performances; but these, though they cannot so well be excused when they come from ancient and established seats of learning, may, at least, be connived at here; and what we could not endure from an illustrious University, we can easily pardon in an infant Seminary."

The *Critical Review*, for October, 1763, p. 289, speaks of the contributions as "not distinguished by the writers' names, like the verses from our own Universities." Referring to the prophecy of America's future rank in letters, embodied in Governor Bernard's EPILOGUS, the reviewer closes: "We wish this prophecy may, and have great reason to expect that it will, be fulfilled in due time, as the verses from Harvard College seem already to bid fair for a rivalry with the productions of Cam and Isis."

The closing contribution of Governor Bernard

deserves remembrance for its merits as well as for the prophecy:—

ISIS et CAMUS placide fluentes,
Qua novem fastos celebrant sorores
Deferunt Vatum pretiosa REGI
DONA BRITANNO.

Audit hæc Flumen, prope Bostonenses
Quod NOVANGLOM studii dicatas
Abluit sedes, eademque sperat
Munera ferro.

Obstat huic Phoebus, chorus omnis obstat
Virginum; frustra officiosa pensum
Tentat insuetum indocilis ferris
Plectra juventus.

Attamen, si quid studium placendi,
Si valent quidquam Pietas Fidesque
Civica, omnino rudis haud peribit
Gratia Musæ.

Quin erit tempus, cupidi augurantur
Vana ni Vates, sua cum NOVANGLIIS
Grandius quoddam meliusque carmen
Chorda sonabit:

Dum regit mundum occiduum BRITANNUS,
Et suas artes, sua jura terris
Dat novis, nullis cohibenda metis
Regna capessens;

Dum DEUS, pendens agitationes
Gentium, fluxu moderatur orbi,
Passus humanum genus hic perire,
Hic renovari.

In some of the copies, a slip of paper, inserted at the end, mentions three verbal or literal errors on pp. 10, 24, and 43, and adds: "The last stanza of p. 72 [No. xxi.], in some copies, to be corrected thus:—

"Lucidos currus per aperta coeli
Phoebus impellens, nec Avo videbat
Clariorem; nec, nisi per Nepotem,
Viderit unquam."

In all three of the College library copies this stanza reads in this corrected way; but in the Belknap copy (Boston Public Library), it reads:—

"Lucidos currus per aperta coeli
Phoebus impellens, videt haud Georgo
Clariorem; nec, nisi per Nepotes,
Viderit unquam."

In the following list of the contributions to the volume, the names of the supposed authors are given, and after them certain letters, which indicate the authorities, according to this key:—

▲¹ Monthly Anthology, Boston, June 1809, p. 422. An article written by Alexander H. Everett, who says the names "are mostly taken" from the Sewall copy, "and as he [Sewall] was, at the time when they were written, a member of College, and wrote several of them himself, are probably correct."

▲² Monthly Anthology, July, 1809, p. 67. In which the Rev. Dr. Samuel Deane of Portland, the only contributor then surviving, amends the list in the June number.

▲³ This same number, p. 67, also contains an anonymous note, dated July 13, 1809, on the subject with a partial list.

B. Dr. Jeremy Belknap's copy, bearing his autograph and the date 1762, given in 1859 by his daughter, Elizabeth Belknap, to the Boston Public Library, where it now is. It has marginal notes by Belknap, and names appended to most of the pieces.

E. A copy formerly owned by Prof. McKean, bought at the sale of his library by the Rev. Mr. Greenwood, and after his death purchased by the late George Ticknor, and given by him to Mr. Dowse (according to a memorandum, made by Prof.

C. E. Norton, from Mr. Ticknor's information, about 1844); but such a copy is not now in the Dowse Collection of the Mass. Historical Society. The assignment of names is made on the authority of the Rev. Dr. John Eliot, as appears from a note by Prof. McKean, in the copy: "The writers, as I have been informed by one well conversant with our civil and literary history, and as a scholar ranking first in the very first class (Dr. Eliot), were as follows: " A copy in Harvard College library, bound with others, given in 1853 by Epes S. Dixwell, Esq., seemingly once the property of Dr. Eliot, for it has his autograph on the fly-leaf, has no annotations whatever.

E A copy in a volume of Tracts, given to the Harvard College Library by Samuel A. Eliot in 1845, this particular copy bearing the name on the title, "Samuel Eliot, 1762." The names at the end of the several pieces, and other notes seem to be in the same hand, and the names correspond in such way to those given in the Belknap copy that it is evident the information came from the same source. One of the notes, common to both copies, is curious. In No. xi., p. 35, is this couplet, —

"Here he restrain'd the Indian's thirst of gore,
And bid the murderous tomahawk drink no more."

Against *tomahawk* is written, "Compounded of tomahawk and ax."

The connection of the Belknap and Eliot families was near. Belknap a few years later (1767) married Ruth, the sister of this Samuel Eliot, who was the founder of the Eliot professorship, and who became a prominent merchant in Boston. He was cousin of the Rev. John Eliot, named under **E**. Samuel Eliot was the grandfather of President Eliot.

H A copy in Harvard College Library, which seems to have been specially bound as a memorial. In it has been inserted by the late Librarian, T. W. Harris, 1836, a transcript of the "Proposal," and an "Index" of the writers, made out by the Rev. Dr. T. M. Harris, "as I was told," says Prof. Norton's memorandum, "by his son, Dr. T. W. Harris." In a few instances, the writing is in pencil, perhaps later, and these are indicated by an asterisk, **H***. Harris owned the Sewall copy.

L A copy in the possession of the Rev. Robert Lowell of Schenectady, grandson of the writer of no. vii., who says the assignments of authorship in it are "apparently in the handwriting of my great-grandfather, Rev. John Lowell, of Newbury, Class of 1721." This graduate died in 1767, and was the father of the contributor of no. vii.

M The Massachusetts Historical Society's copy, with names in pencil in a late hand, apparently following some earlier authority, and corresponding in some respects with the copy **H**. The early proceedings of the Society show that this copy was given to it by Dr. Belknap in 1791.

N A copy in the New York Historical Society, which being bound in morocco, gilt leaves, with the Royal arms stamped on the cover, and the book-plate of Carlton House Library within, is held to be the one presented to the King. It contains only two assignments of authorship, nos. xi. and xvi.

S A copy marked by Prof. Stephen Sewall, one of the contributors, and given by him to the late Dr. T. M. Harris, who, in a letter to Mr. Ticknor, calls Sewall "the most accomplished Classical Scholar of the day, which our College or Country could boast."

P A copy bearing on the fly-leaf, in President Holyoke's hand, "Edvardi Holyoke Liber;" be-

neath which a further inscription points out the present owner, — "Illius, Universitatis Harvardianæ Præsidis clarissimi, nepos, Fredericus Henricus Hedge, Amico suo, antiquitatum Nov-Angliæ cultori perdocto, Georgio E. Ellis, S.T.D." The authors' names are given in the President's hand at the end of some of the pieces.

W A copy which belonged to Prof. John Winthrop, and was subsequently owned by the late George Ticknor; but those marked **W*** are written, in that copy, in another hand than Winthrop's.

* If a point of interrogation (?) follows a letter, it signifies that the authority thus given expresses a doubt on the point.

LIST OF PIECES.

TO THE KING. *Lieut.-Gov. Hutchinson, S. W. Gov. Francis Bernard, E. H.* L.* It is said, erroneously in **A**¹ that the Sewall copy gives it to Bernard. Eliot, in his Biog. Dictionary, gives it to Hutchinson, who had graduated at Harvard in 1727, and was now about fifty years old. Bernard, who took his degree at Oxford in 1736, had arrived in the Province in August, 1760, and was about three years the junior of the lieutenant-governor.

I. ADHORTATIO PRÆSIDIS. *Gov. Francis Bernard, E. W. President Edward Holyoke, A¹ A² B. E² H.*? L. M.*? S.* The *Monthly Review* ascribes it to "The President." A. H. Everett adds, "President Holyoke was then very old, and his Adhortatio is said to have been corrected by master Lovell."

Holyoke was now seventy-two years old, and died in office seven years later. He had graduated in 1705.

II. AD PRÆCELLENTISSIMUM PROVINCIÆ PREFEC-TUM. *Master John Lovell, A¹ A² E. H. M.*? S. W. J. Taylor, B. E² L.* The *Monthly Review* says it "seems to have been written" by Holyoke.

Lovell was at this time the head-master of the Latin School in Boston, and was now fifty-one years old, having graduated in 1728. The other claimant was probably the Joseph Taylor of the Class of 1765 (died 1816); in which case he was a freshman at the time, aged fifteen years. The Lowell copy gives the name in full, "Mr. Jos. Taylor."

III. CUM ROSEIS QUONDAM DEA, etc. *Stephen Sewall, A¹ A² E. H. L. M. P. S. W.*

Sewall had just graduated at the age of thirty, having fitted himself for college at the joiner's bench. He became tutor in Hebrew in 1762.

IV. ARE MONARCHS THEN SUCH UNIMPORTANT THINGS, etc. *Dr. Benjamin Church, H. M.*

Church had graduated in 1754 at the age of twenty, and was now acquiring reputation in Boston as a surgeon.

V. OF CYPRESS DEIGN, CELESTIAL MUSE, TO SING. *Stephen Sewall, A¹ A² B. E. E² H. L. M. P. W.*

VI. CUM BRITONUM REGEM, etc. *Gov. Francis Bernard, E. H. M. W.*

VII. WHILE THRO' THE BRITISH WORLD, etc. *John Lovell of Newbury, A¹ A² B. E. E² H. M. P. S. W.* A. H. Everett adds, "afterwards LL.D. and A.A.S., member of Congress, and judge successively of the Court of Appeals, District Court, and Circuit Court of the United States." The *Monthly Review* held that these verses, "though said to be written by a youthful son of Harvard, are allowed to be nervous, and we cannot but congratulate the College on so promising a pupil."

Lowell had graduated in 1760. He was the grandfather of Prof. James Russell Lowell, and of the Rev. Robert Lowell. The late Rev. Dr. Charles Lowell added to the Lowell copy, against his ancestor's name in the list, "Æt. 17."

VIII. CUM REX SCIRET AVUM, etc. *James Bowdoin, A¹ E. H. W.* *Francis Bernard, B.* (giving it "F. B. esq.").

Bowdoin was at this time sixteen years out of college, and had graduated at eighteen in 1745. His prominence as an opponent of ministerial measures, subsequently incurred the displeasure of Bernard, who a few years after they were thus associated together, negatived him as a Councillor, in 1769.

IX. PROXIMUS A PRIMO, etc. *James Bowdoin, E. H. W.* *Francis Bernard, B.* (giving it "F. B., esq.").

X. HARK! — TO WHAT MELANCHOLY SOUND. *Rev. Samuel Deane, Portland, A¹ A² B. E. E² H. L. M. F. S. W.* Cf. Willis's *Portland*, p. 655.

XI. WHERE THICK-EMBOW'RING SHADES. *Dr. Benjamin Church, A¹ A² B. E. E² H. L. M. N. S.* *Peter Oliver, esq., W.* The *Critical Review* calls this much the best of the English poems.

Judge Oliver, at this time on the Supreme Bench, had graduated in 1730, and was now forty-eight years old.

XII. QUID SIBI VULT, etc. *Stephen Sewall, A¹ E. H. L. M. P. S. W.*

XIII. AS, ON HER WHITE-CLIFT, SEA-GIRT SHORE. *Rev. Samuel Cooper, A¹ E. H. M. S. W.* *Peter Oliver, B. E²* A. H. Everett adds, "a species of measure generally unsuccessful in English poetry, lyric verse without rhyme."

Cooper was at this time thirty-six years old, and had graduated eighteen years before (1743). He was now settled over the Brattle Street Church in Boston, and got his doctorate, which gave him the title he is usually known by, in 1767, from the University of Edinburgh.

XIV. DEBILI TENTURA VIAM VOLATA. *Stephen Sewall, A¹ E. H. M. S. W.**

XV. 'ΕΛΕΓΕΙΟΝ. *Stephen Sewall, A¹ B. E. E² H. L. M. P. S. W.*

XVI. 'ΟΔΗ. *Stephen Sewall. A¹ B. E. E² H. L. M. N. P. S. W.*

XVII. HAIL KINDRED SPIRIT! *James Bowdoin, A²* A² says "J. B., esq." B. E. E² H. L. M. P. says "Tho't to be Mr. Bowdoin." S. W.

XVIII. 'ΕΠΙΤΑΦΙΟΝ. *Gov. Bernard, A¹ B. E. E² H. L. M. P. S. W.*

XIX. EPITAPHIUM. *Gov. Bernard, A¹ A² B. E. E² H. L. M. P. S. W.*

XX. EPITAPH. *Gov. Bernard, A¹ B. E. E² H. M. S. W.*

XXI. IN REGIS INAUGURATIONEM. *H.* M.* Each with a pencil note, which reads, "By *Dr. Deane* of Portland, then Butler in College, on authority of Dr. Weed, class of 1800 and Rev. Dr. Nichols." The *Odell Catalogue* assigns it to *Gov. Francis Bernard*. Cf. *Historical Magazine*, ii. 281; and *Willis's Memoir of Samuel Deane*, prefixed to his *Diary*, p. 290. See also no. x.

Deane had graduated in 1760 at eighteen, and was at this time the Librarian of the College.

XXII. DUM VARIAS GRATIS, etc. *This is not assigned in any of the lists.*

XXIII. QUEM VIRUM MAVULT, etc. *Stephen Sewall. A¹ A² B. E. E² H. L. M. P. S. W.*

XXIV. EPITHALAMIUM. *This is not assigned in any of the lists.*

XXV. GEORGE GAVE THE WORD. *Master J. Lovell, A¹ E. H. M. S. W.**

XXVI. DUM SERVAT STELLAS. *Master John Lovell, A¹ A² B. E. E² L. W.* *Prof. John Winthrop, A¹ E. H. M. S.* A. H. Everett adds "It has more to recommend it, than mere elegance and purity of expression, — the usual acme of modern Latin poetry; the thoughts are ingenious and happy."

Winthrop was the Hollis professor of mathematics and natural philosophy in the College. He was born in 1714, and had graduated nearly thirty years before this.

XXVII. WHILE HALLEY VIEWS THE HEAVENS. *Master John Lovell, A¹ A² B. E. E² L. W.* *Prof. John Winthrop, A¹ E. H. M. S.* A. H. Everett says "The English translation," of No. xxvi., "is not much inferior to the Latin."

XXVIII. SOME SERAPH TOUCH THE SACRED LYRE! *Rev. Samuel Cooper, E. H. M. W.** A. H. Everett gives it to Dr. C. from "internal evidence."

XXIX. THO' FROM THY HAPPY SHORES. *Stephen Sewall, A² B. E. E² L. P. W.* *Peter Oliver, E. H. M.** (In the H. record Peter is in pencil.) *Thomas Oliver, A¹ M? S.*

Thomas, of a different family from Peter Oliver, was born 1734, graduated 1753, and became subsequently the last of the line of royal lieutenant governors.

XXX. THO' WEALTH AND POWER. *James Bowdoin. A²* says "J. B., esq." B. E. E² H.* L. M.

XXXI. EPILOGUS. *Gov. Francis Bernard, A¹ E. H. M. S. W.*

Library of Harvard University.

2,
1887
-1888

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 5.



LIST OF APPARATUS

AVAILABLE FOR SCIENTIFIC RESEARCHES INVOLVING ACCURATE
MEASUREMENTS,

AND

CONTAINED IN DIFFERENT AMERICAN LABORATORIES.

REPUBLISHED FROM THE BULLETIN OF THE LIBRARY OF HARVARD UNIVERSITY,
NUMBERS 11 AND 12.

CAMBRIDGE, MASS.:
UNIVERSITY PRESS: JOHN WILSON AND SON.

1879.

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michel Angelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
- *10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.

LIST OF APPARATUS

AVAILABLE FOR SCIENTIFIC RESEARCHES INVOLVING ACCURATE
MEASUREMENTS, PREPARED BY MEANS OF THE ANSWERS
ELICITED BY THE FOLLOWING CIRCULAR:—

HARVARD UNIVERSITY,
CAMBRIDGE, MASS., Jan. 30, 1873.

DEAR SIR, — The cost of the apparatus required for exact quantitative determinations in the various branches of Physics has always been a serious obstacle to the prosecution of investigations in which a high degree of precision is necessary. We ask your favorable consideration of a plan by which this difficulty may, to a great extent, be remedied. Almost every university or large college in our country possesses one or more pieces of apparatus suitable for research. We propose to publish in the Library Bulletin of Harvard University, a list of such apparatus as complete as it is possible to obtain, and to enlarge and correct this list from time to time as occasion may require. Will you aid the cause of science by furnishing us with a concise list of such apparatus as you possess or which may be under your control, and which you are willing to place, with such restrictions as you may deem necessary, at the disposal of any properly qualified person for the purposes of investigation? In mentioning any particular instrument, be so good as to give the name of the maker and his place of residence, and to characterize the apparatus in such a manner that its precise availability and adaptation to a special research may be clearly seen. Thus the apertures and focal lengths of the telescope and collimator of a spectroscope should be given, together with the magnifying powers, the number, sizes, and character of the prisms, and any special arrangements and accessories which increase the range of the instrument. In the case of a spectrometer, in addition to the above, the limit of precision in angular reading should be stated and whether the readings are by verniers or by micrometers. We propose to embrace in our list only apparatus relating to the subjects of Heat, Light, Electricity, Magnetism, and Sound. We do not ask for any statement of the restrictions you may be obliged to place upon the use of the apparatus under your control. That is a matter which may be settled between applicants and yourself or the authorities in charge of your institution. Asking the favor of an early answer, — which may be addressed to either of the undersigned, — we are, with sincere respect and regard, very truly yours,

WOLCOTT GIBBS.
EDWARD C. PICKERING.
JOHN TROWBRIDGE.

UNITED STATES COAST AND GEODETIC
SURVEY OFFICE.

The use of this apparatus may be had at the office, under appropriate regulations. Applications must be made to Capt. C. P. Patterson, Supt. U. S. Coast Survey.

1. *Comparators of Length.*
 - a. Saxton's Pyrometer, or mirror comparator, for end measures.
 - b. Repsold's Contact-level comparator, for end measures.
 - c. Saxton's Tracing and Comparing machine, for line measures.
 - d. Hilgard's Comparator, for line and end measures for any length between three and forty inches.
 - e. Rutherford's Micrometer, with two screws at right angles and circle of position for measuring stellar and solar photographs.
2. *Standards of Length.*
 - a. Standard Iron meter of original committee for establishing metric system (end measure).
 - b. Standard British yard (line measure). (end measure).
- Eighty-four inch "scale," divided to tenths of inches, made by Troughton and compared throughout by Hassler.
- c. Decimeter divided into centimeters and millimeters, compared with the original standard meter.
- d. Copy of Toise, accurately compared.
3. *Apparatus for Weighing.* Balances of precision for maximum charges of 100, 10, and 1 kilograms, and 100 and 1 grams.
4. *Standard Weights.* Standard Troy and Avoirdupois pounds; kilogram in platinum and in brass accurately compared.

AMERICAN ACADEMY OF ARTS AND
SCIENCES, BOSTON.

Applications for use must be made to Professor Joseph Lovering, Chairman of the Rumford Committee, Cambridge, Mass.

1. *Meyerstein's spectrometer.* Aperture of collimator and telescope, 3.8 centimeters; magnifying power of telescope 18 times; graduated circle reads by means of two micrometers to two seconds. Instrument intended to be used with a diagonal eye-piece for obtaining reflection at right-angles to the reflecting surface. It is not well adapted for measuring

indices of refraction, except by the special method for which the instrument was designed.

2. *Large hollow prism* of glass with moveable glass faces held in their places by springs. Angle 60° .

8. *Prof. J. Trowbridge's Electro-dynamometer*. Instrument for measuring the strength of powerful electric currents such as are produced by dynamo-electric machines. Mean radius of fixed coils 153.3 millimeters. Instrument described in Proceedings of American Academy of Arts and Sciences, Oct. 9, 1878.

4. Thomson's Galvanometer, resistance 6 ohms.

HARVARD UNIVERSITY.

RUMFORD CABINET.

In Charge of Professor Wolcott Gibbs.

1. A *spectrometer* by Brunner Frères, of Paris. The instrument has a single graduated circle 10 centimeters radius, reading by two verniers to 5 seconds of arc, and by a micrometer eye-piece to about 2 seconds. The telescope and collimator have 83 centimeters focal length, and 3.4 centimeters aperture. The micrometer is provided with cross and also with parallel spider lines and with a separate collimating eye-piece. The spectrometer stands upon a plate of metal which can be made to revolve, so that measurements by repetition are practicable. The instrument is in perfect adjustment, and has every thing necessary for the determination of wave lengths and of indices of refraction. In connection with it the Rumford Cabinet possesses:

2. Two gratings, Nos. 1 and 2, ruled on speculum metal by D. C. Chapman with Mr. Rutherford's engine. One of these, No. 1, has 8648 lines to the inch and a ruled surface ($4.3 \text{ cm.} \times 5.2 \text{ cm.}$). The other has 17296 lines to the inch and the same ruled surface as No. 1. They may be adjusted to the spectrometer above described by plate-holders constructed by William Grunow of New York, with all necessary requirements for the measurement of wave lengths.

3. A collimator, 0.1600 meters focal length and 6.5 centimeters aperture, mounted upon a stand and specially adapted to the study of the extreme visible red and violet ends of the spectrum. Object-glass by Alvan Clark and Sons. A quartz lens of the same focal length is to be added to this instrument from the workshop of Steeg and Reuter, in Homburg vor der Höhe, as well as a telescope with quartz objective and eye-piece for observing the ultra-violet spectrum.

4. A *porte-lumière* by Duboscq. A Foucault's heliostat has been ordered, and may be expected in the course of the summer.

5. *Vierordt's apparatus* for measuring the intensity of light corresponding to any part of the visible spectrum. Telescope and collimator 25 centimeters focal length. Apertures, 2.8 centimeters and 2.1 centimeters. The instrument was made by Schmidt and Haensch, of Berlin, and is complete with prism and colored glasses.

6. A *direct-vision spectroscope* with 2 sets of 9 prisms each. Set 1 contains 4 prisms of carbonic disulphide and 5 of crown glass. Set 2 consists of 4 prisms of flint and 5 of crown. The length of the instrument is 60 centimeters. It is provided with a scale telescope, and the observing

telescope has the usual angular motion. This instrument is also by Schmidt and Haensch.

7. An *inductorium* by Apps, of London, giving a 4-inch spark.

8. *Three thermometers* by Baudin, of Paris, reading to .01 degree Centigrade.

No. 1. Reading from $0^\circ.6$ to 12° Centigrade.

No. 2. " " 12° to 28° .

No. 3. " " 28° to 85° .

In these instruments the weights of the bulbs, stems, and contained mercury are given.

9. *Edison's tasimeter*, made by Patrick and Carter of Philadelphia, and adjusted by Mr. Edison. See American Journal of Arts and Sciences, 3d series, vol. xvii., p. 62. A galvanometer suited to this instrument will be found in the cabinet in charge of Prof. Trowbridge, together with the requisite batteries and Wheatstone's bridge.

In connection with these instruments, the following belonging to the Rumford Professor are also available.

1. A *large spectroscope* with telescope and collimator of 4.75 centimeters aperture and 5.5 centimeters focal length. Magnifying power from 8 to 60 times. Object-glasses by Fitz of New York. Six hollow prisms of carbonic disulphide—glass faces 6×8 centimeters—arranged on Mr. Rutherford's plan, so that all the prisms are constantly in the position of minimum deviation. The stand, observing telescope, and prisms of this instrument may be used in connection with the long collimator belonging to the Rumford Cabinet.

2. A *large hollow prism*, with angle of 80° —glass faces 6×8.5 centimeters—for Prof. Gibbs's solution of phosphorus and sulphur in carbonic disulphide. See American Journal of Science and Arts, vol. 4, p. 6, 2d series.

3. *Two flint glass prisms*—faces 8.5×5 centimeters—*which may be used singly or together.* Angles of 60° .

4. *Prof. Gibbs's double or compensating prism* for the study of absorption spectra. See American Journal of Art and Sciences, vol. 4, p. 8.

5. *Five gratings* ruled with Mr. Rutherford's engine:—

No. 1. Ruled on speculum metal, 6480 lines to the inch. Ruled surface 2.1×2.8 centimeters. Metal a little tarnished.

No. 2. Ruled on glass and silvered; 8640 lines to the inch; 7021 lines upon a ruled surface 2×2.7 centimeters. Covering plate of glass cemented with Canada balsam.

No. 3. Ruled on glass for spectra by transmission. 6480 lines to the inch. Ruled surface 1.7×2.7 centimeters.

No. 4. Ruled on glass for transmission of light. 12960 lines to the inch. Ruled surface 1.3×2.7 centimeters.

No. 5. Ruled on glass and silvered. 13321 lines on a space 19×24 centimeters, with covering glass cemented by Canada balsam.

Kirchhoff's, Angström's and Mascart's maps of the spectrum.

Mr. Rutherford's original photographs, together with the German lithographic reproduction of the same.

Mr. Rutherford's recent photographs taken with the diffraction spectrum. Thalen's map of the absorptive bands of iodine vapor.

The thermometers by Fastré, of Paris, carefully compared with an air thermometer reading from 0° to 100° C.

HARVARD UNIVERSITY.

DEPARTMENT OF PHYSICS.

In charge of Professor John Trowbridge.

1. *Edelmann's instrument* for measuring horizontal and vertical intensity of earth's magnetism.

The peculiarity of this instrument consists in its allowance of a long suspension, and in its torsion head.

2. *A standard ohm*, and two boxes of resistance coils running from one to five thousand ohms.

3. *An induction coil* made in the horseshoe form and provided with iron plates for armatures. The two induction coils comprise a resistance of 12,000 ohms.

4. *Galvanometer for absolute measure*. Maker: Edelmann, Munich. A short coil minor instrument, adapted for absolute measure by certain methods. Resistance, six ohms.

5. *Thomson's Reflecting Galvanometers*. One of 5,880 ohms' resistance,—a differential instrument. One of six ohms' resistance adapted for heat measures.

6. *Thompson's Quadrant Electrometer*. Made by White of Glasgow.

7. *Cuthetometer*. Maker: Perreux, Paris. Reads by vernier to $\frac{1}{100}$ of millimeter, or by micrometer to $\frac{1}{100}$ of a millimeter. Focal length of objective, 18 centimeters; magnifying power of telescope, 80 times.

8. *Dividing Engine*. Maker: Perreux, Paris. Screw, 61 centimeters long. Pitch of screw, one-half of a millimeter. Micrometer head reads to one four-hundredth of a millimeter. Instrument adapted only for graduating tubes and scales, or for comparison of graduations.

9. *Large Spectroscope*. Designed by Prof. J. P. Cooke, of Harvard University. Two trains of prisms. One of nine bisulphide of carbon prisms of 45° . One of nine flint-glass prisms of 45° . Graduated circle reading to 10 seconds, also a micrometer eye-piece. Magnifying power of telescope, 10 times; focal length of objective, 46 centimeters; aperture, 6.5 centimeters.

10. *Reading telescope and scale*. On brass levelling stand. Telescope provided with two objectives: one for short, the other for long, distances.

Magnifying power for long distances, 22 times.

" " short " 80

Focal length of the objective for long dist. 30 cm.

" " short " 23 "

Aperture of objectives, four centimeters.

HARVARD UNIVERSITY.

ASTRONOMICAL OBSERVATORY.

In charge of Professor E. C. Pickering.

List of instruments not in constant use, and available for research.

1. *East Transit Circle*, by Troughton and Simms, of London. Aperture of telescope, $4\frac{1}{2}$ inches; focal length, 5 feet. Described in vol. I., pt. 1, of the *Annals of the Observatory*, p. 46.

2. *West Equatorial*, by Alvan Clark and Sons, of Cambridge. Aperture of telescope, $5\frac{1}{2}$ inches; focal length, $7\frac{1}{2}$ feet. Described in vol. VIII. of the *Annals of the Observatory*, p. 31.

3. *Portable Transit Instrument*, by Herbst, of Pulkowa. Aperture of telescope, $2\frac{1}{2}$ inches; focal

length, 83 inches. Eye-piece at end of axis. Described in vol. VIII. of the *Annals of the Observatory*, p. 28.

4. *Bowditch Comet-seeker*. Aperture, $\frac{1}{4}$ inches; focal length, 83 inches. Described in vol. VIII. of the *Annals of the Observatory*, p. 32.

5. *Telescope*, by Lerebours. Aperture, 3 inches; focal length, 60 inches.

6. *Telescope*, by Alvan Clark and Sons. Aperture, $3\frac{1}{4}$ inches; focal length, 89 inches. Object-glass slightly damaged.

7. *Variation transit*, by Troughton and Simms, of London. Aperture of telescope, $1\frac{1}{2}$ inches; focal length, 18 inches.

8. *Traveller's transit theodolite*, No. 3527, by L. P. Casella.

9. *Sextant*, by Spencer, Browning, and Rust.

10. *Spectroscope*, by Troughton and Simms, of London, with two prisms, and Professor Winlock's apparatus for recording observations, as described in vol. VIII. of the *Annals of the Observatory*, p. 33.

11. *Spectroscope*, by J. Browning, of London, with one prism, and Professor Winlock's apparatus for recording observations.

12. *Spectroscope*, by Alvan Clark and Sons, of Cambridge, with five prisms and reflecting prism to send the light a second time through them. Dispersive power exceeding that of 22 ordinary prisms. Prisms not movable. Described in vol. VIII. of the *Annals of the Observatory*, p. 35.

13. *Lens of plate-glass*. Focal length, about 40 feet; aperture, 4 inches.

14. *Lens corrected for chemical rays*. Focal length, 32 feet 6 inches; aperture, 4 inches.

15. *Photometer*, by Ausfeld, of Gotha, on plan of Professor Zöllner.

16. *Occultator* (for computation of occultations) on plan of Rev. Thomas Hill.

17. *Position circle*, read by verniers to minutes of arc.

18. *Thermometric chronometer*, by C. Frodsham, of London, No. 3424, constructed so as to increase its daily rate by $6''$.11 on a reduction of one degree Fahrenheit.

19. *Clock*, by W. Bond and Son, of Boston, No. 312.

20. *Small chronograph*, by Herbst, of Pulkowa.

21. *Portions of the magnetic apparatus* described in vol. I., pt. 1, of the *Annals of the Observatory*.

Property of Professor William A. Rogers.

1. *Small line and circle graduating engine*. This machine is designed for all kinds of graduations, in which the length of the line to be ruled does not exceed 2 inches. The errors of the screw for one thousandth of an inch have been carefully investigated. It is not automatic in its action, and hence is not adapted to ruling diffraction gratings. The circular graduations are only approximate.

2. *Machine for original graduation of circles* from 1 inch to 15 inch disc.

3. *Machine for shaping and polishing diamonds* for marking on glass and on all kinds of metals.

4. *Microscope comparator* for short lengths.

5. *Comparator for long standards* of length.

6. *In process of construction at the Waltham Watch Factory: A universal line graduation engine*. This machine is designed,—

(1.) To rule Nobert's bands.

(2.) To graduate both short and long standards of length.

- (8.) To rule diffraction gratings in which, —
 (a) Any required relation between the relative width of the lines and the spaces may be secured.
 (b) Errors of any required magnitude may be introduced, whether individual or systematic, without interference with the remaining graduations.
 Professor Rogers is prepared, —
 (a) To make centimeters and inches which are aliquot parts of the coast-survey standard meter and yard marked, *Y. & M. No. 2*.
 (b) To compare meters and yards, or any aliquot parts of the same, with standards.
 (c) To determine the distance between the end lines of diffraction gratings in terms of the coast-survey yard or meter, *Y. & M. No. 2*.
 (d) To compare end measures with line measures.
 (e) To make transfer copies of the yard and meter adopted as a standard.
 (f) To determine the coefficients of expansion of metal bars of any length not exceeding 44 inches.

HARVARD UNIVERSITY.

MEDICAL SCHOOL, PHYSIOLOGICAL LABORATORY.

In charge of Professor H. P. Bowditch.

1. *Thomson's Galvanometer*, No. 26, Elliott Brothers. Resistance at 55° F. = 5995 B. A. units.
2. *Wiedemann's Galvanometer*, with mirror and two pairs of coils of 4000 and 98 turns respectively.
3. *British Association Unit of Resistance*, No. 74, right at 15.5° C.
4. *Pendulum Myograph*, described by Dr. J. J. Putnam at the American Academy, March, 1879.
5. *Cylinder Chronograph*, Baltzar, Karolinen Strasse, 14, Leipzig.
6. *Chronograph*, with long roll of paper. Baltzar. Leipzig.
7. *Clock* for making or breaking an electrical circuit once in 1, 2, 3, 4, 5, 10, 15, 20, 30, or 60 seconds, the duration of the make or break variable from 0 to 4 seconds.

STEVENS INSTITUTE OF TECHNOLOGY.

HOBOKEN, NEW JERSEY.

For the use of this apparatus application may be made to Professor A. M. Mayer.

1. *Apparatus for the determination of coefficients of expansion*. Consists of the tube (invented by Professor Mayer) to hold the rod under measurement. This tube is so constructed that the rod up to its terminal planes is kept permanently at the temperature of melting ice, or at the boiling-point, or at any intermediate temperature by passing a current of water or hot oil through the tube; at the same time the terminal planes of the rod are exposed for abutment against micrometer screws, &c. The rod is supported in the tube at quarters of its length from its ends, and the weight of tube and enclosed rod is taken off the V's of the apparatus by straps and spring balances.

The measuring part of the apparatus is entirely distinct, and at a distance from the tube. The tube is only placed in contact with the measuring apparatus at the moment of making the measurement.

The measures are made by Saxton's reflecting comparator, or by micrometer screws brought up to the ends of the rod, and contact determined by the closing of a voltaic circuit.

Successive contacts, made by successively placing the rod (cooled to melting ice), give a range of measures on a rod one meter long, equal to about $\frac{1}{100000}$ th of an inch. Micrometer screws, pitch $\frac{1}{100}$ th and $\frac{1}{10}$ th inch.

2. *Vertical Comparator*, with contact level, micrometer screw, pitch = $\frac{1}{100}$ inch. Well made, heavy cast-iron frame of T section, mounted on a cast-iron tripod base.

3. *Apparatus for the comparison of yard and meter* (yard or line measures), by Airy's method. Massive cast-iron plate with guides, two micrometer microscopes, with apparatus for handling measures.

4. *Spectrometer*. Circle divided by Brunner of Paris, reading by vernier to 5'. Telescopes: one set, one inch aperture, 10 inch focus. Another set: collimator, 5 feet long and observing telescope, 18 inches focus. (*Property of Prof. Mayer.*)

5. *Interferential Refractometer of Arago*. Tube of one meter for holding gas whose index of refraction is to be measured. Collimator six inches; observing telescope, three-quarters of a meter focus.

6. *Two of Hipp's Chronoscopes*.

7. *Electric Clock*, to be used in connection with inductorium and rotating cylinder, to determine the number of vibrations of tuning-forks and other solid bodies.

8. *Spherometer*, by Brunner, of Paris, furnished with a contact lever. Pitch of screw, 0.5 millimeter.

9. *Full sets of resistance coils*, condensers, and high and low resistance Thompson galvanometers.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

DEPARTMENT OF PHYSICS.

In charge of Professor Charles R. Cross.

1. *Cathetometer*, by Staudinger. Scale graduated to millimeters; length, 1020 millimeters. Vernier reads directly to $\frac{1}{10}$ millimeter. Focal length of telescope is 280 millimeters. One division of level corresponds to 5'.

2. *Dividing Engine*, by Buff and Berger. The microscope is carried by two screws moving at right angles to each other, so as to give two co-ordinates. The pitch is $\frac{1}{10}$ inch, and the length of the screws, 16 inches and 4.5 inches, respectively. Circles are divided into 100 parts, read by estimation to tenths. The instrument is arranged especially for measurement rather than for graduation.

3. *Spectrometer*, by Clark. Furnished with five 60° and one 30° prisms, the latter silvered on its rear surface. A greater or less number of prisms can be used at will. Face of prisms 5.7 centimeters \times 7.8 centimeters. Focal length of telescope 70 centimeters; diameter of object-glass, 5.2 centimeters. Diameter of circle 43.5 centimeters, reading to 10' by verniers. Smaller angles are measured by spider-line micrometer. The same telescope serves as collimator and observing telescope, the method of reflection from the silvered surface of the glass being used.

4. *Diffraction Grating*, ruled by Chapman on Mr. Rutherford's engine. 17,256 lines to an inch;

30,600 spaces. Area of ruling, 4.5 centimeters square.

6. *Two prisms of quartz*, 60°, faces 5.5 centimeters \times 4.0 centimeters. Also various prisms of flint glass and heavy glass.

Eaton's Direct-vision Prism of glass and carbon disulphide. Small direct-vision prisms of glass.

6. *Polarimeter* of Professor Pickering, for Sky-Polarization. See *Proc. Am. Acad.*, vol. ix.

7. *Wheatstone's Bridge*, by Elliot, measuring from .001 to 1,000,000 ohms.

8. *Thomson's Long-coil Galvanometer*. Resistance 3,000 ohms. Thomson's short-coil galvanometer for thermo-electrical work; resistance, $\frac{1}{10}$ ohm.

9. *B. A. Divided Meter Bridge*.

10. *Tangent Galvanometer*. 86 coils, 26 centimeters radius. *Gaugain Tangent and Sine Galvanometer*. *Cosine Galvanometer*.

11. *Induction Coil*, by Ritchie, giving 6 inch spark.

COLUMBIA COLLEGE, NEW YORK.

In charge of Professor O. N. Rood.

1. *Newman's Standard Barometer*; diameter of tube, 0.6 inch; reads to $\frac{1}{100}$ inch.

2. *Grunow's Spectrometer*. Focal length of lenses, 14 inches; diameter of circle, 9 inches; aperture, 1.3 inches; reads to 10 seconds.

3. *Cathetometer*. Length, 800 mm.; focal length of telescope, 10 inches; aperture 1.1 inches. Provided with extra object-glass for reading at short distances.

4. *Wild's Photometer*, simple construction, diameter of circle, 6 inches.

5. *Apparatus* for measuring the velocity of sound in rods of wood, by means of longitudinal vibration. Described in *American Journal of Science*, vol. xvii.

6. *Magneto-electric Machine*, by Wallace (no motor).

7. *Ruhmkorff's Diamagnetic Apparatus*.

8. *Tangent Compass*. Diameter of circle 18.5 inches.

9. *Original Siemens Unit*.

10. *Helmholtz Apparatus* for Vowel Sounds.

11. *Koenig's Phonautograph*.

12. *Koenig's Cylinder*, for determining the vibrations of tuning-forks.

13. *Nachet's Large Inverted Microscope*.

14. *Koenig's Monochord*.

15. *Lissajou's Comparateur*.

16. *Comparateur* for the standard yard.

JOHNS HOPKINS UNIVERSITY.

PHYSICAL LABORATORY.

In charge of Professor Rowland.

The list does not include apparatus for demonstration.

Acoustics.

All the ordinary apparatus by Koenig of Paris, including Helmholtz's double siren, Lissajou's vibrating microscope, Hastings' pendulum comparator, &c.

Optics.

1. *Meyerstein Spectrometer* — large model. The circle is of 16 centimeters radius, divided on silver to 6' and reading by two microscopes to 2". The probable and periodic errors of graduation have been investigated, and are given in the *American Journal of Science*, vol. xv. p. 270. Having a common axis with the large circle is a table rotating independently, 6.5 centimeters radius, graduated on silver limb and by two verniers to single minutes. The massive stand has a joint by which the circle may be brought into a vertical plane. Aperture of telescope and collimator 4.0 centimeters, focal length 34 centimeters, powers from 13 upward. A smaller telescope 2.0 centimeters aperture, 18.0 centimeters focal length, power 7 may be placed on a third support rigidly connected with the microscope bearers. The accessories of this instrument are: —

(a). Two telescopes with Nicol prisms before objectives: longer diagonals of prisms, 2.0 centimeters; length of telescopes, 20.0 centimeters; power, 3; position angles of prisms read by circles of 3.5 centimeters radius to minutes of arc.

(b). Babinet's compensator with wedge of 3 centimeters available length.

(c). High power collimating ocular.

(d). Low power collimating ocular.

(e). Three micrometer eye-pieces.

2. *Spectrometer*, by Schmidt and Haensch. The circle has a silver limb 16 centimeters radius, divided to 6' and read by microscopes to 2". Table in centre has a graduation 6.0 centimeters radius, reading by verniers to 1'. Aperture of objectives of telescope and collimator, 3.9 centimeters; focal length, 85.0 centimeters; power, 13. The angle between lines of collimation of telescope and collimator may be read by small circle to single degrees.

3. *Steinheil's Spectroscope*. The clear aperture of train, including two 60° prisms, is 4.0 centimeters. Focal length of collimator and telescope 32.5 centimeters, powers, 8, 12, etc. Photographic scale.

4. *Silbermann's Heliostat*, etc. This instrument, by Duboscq, has two mirrors 18.0 centimeters by 9.0 centimeters, one silver under glass and the other silver. Also, *porte-lumière*.

5. *Jamin's Interferential Refractometer*, with tubes 100 centimeters long, for the study of refraction in gases and a glass trough 20 centimeters long for liquids, by Duboscq.

6. Complete apparatus for the study of phenomena of interference, by Duboscq.

7. *Photographic Apparatus*. Objective 6.1 centimeters aperture, and about 40 centimeters focal length for plates; 10 \times 12 inches, by Steinheil. Dark room, collection of chemicals and every thing necessary for experiments on the subject.

8. *Becquerel's Phosphoroscope*, by Duboscq.

9. *Polarizing Apparatus*, from Steeg; also from Duboscq.

10. Apparatus for producing monochromatic light of any color. Designed by Hastings and made by Schneider.

11. *Prisms, gratings, etc.*

a. Hollow prism from Meyerstein; aperture, 6.1 \times 5.2 centimeters.

b. Hollow prism from Steinheil; aperture, 2.2 centimeters.

c. Thallium glass prism from Steinheil; aperture, 4.8 centimeters.

d. Two flint glass prisms from Steinheil; aperture, 4.7 centimeters.

- e. Crown glass prisms from Steinheil; aperture, 4.8 centimeters.
- f. Two quartz prisms from Steeg; faces, 3.4×3.0 centimeters.
- g. Iceland spar prism; faces, 2.6×2.2 centimeters, by Steeg.
- h. Two rock salt prisms; faces 5.0×4.0 centimeters, by Steeg. Also rock-salt lens.
- i. Large Nicol's prism, largest diagonal 6.5 centimeters. Also a number of smaller ones.
- j. Gratings on speculum metal 4.3×3.9 centimeters with 8648 lines to the inch and 4.4×44 centimeters with 17896 lines to the inch, and a smaller glass grating with 8648 lines to the inch, all by Chapman with Rutherford's engine.
- Kirchoff's, Angstrom's, and Rutherford's maps of the solar spectrum.
- k. Old telescope by Dollond. Objective about 4 in. diameter and 6 ft. focal length.

Electricity and Magnetism.

The distinguishing feature of the apparatus for these subjects is its accuracy and the determination of the constants in absolute measure. The collection is *unique* in this respect.

12. *Rowland's Absolute Electrometer* for potentials represented by sparks of about 0.1 to 1 inch. Designed on Sir Wm. Thomson's guard-ring principle and constructed by Edelmänn of Munich. Guard-ring 33.5 centimeters diameter, and can be separated about 7 centimeters, the distance being read by vernier to 0.01 centimeter. Movable disc 10 centimeters diameter, and firmly attached to arm of a balance sensitive to 1 mgr. Balance moves only .01 centimeter, and means of two distances of the discs are taken, the one to move it to upper and the other to lower stop. Weights of from 1 to 5 grammes ordinarily used. *Discs ground and polished to mirror surface after nickel-plating.*

13. *Rowland's Electrostatic Standard Condenser.* Constructed by Grunow of New York. One sphere within the other nickel-plated and ground to mirror surface, with extra ball for interior. Balls, 7 and 8 inches diameter. Hollow sphere, 10 inches diameter. Apparatus for centering. Radii determined by loss of weight in water. Can be charged and discharged any number of times at rate of three per second, by means of fine wires which pass in momentarily from outside and so do not change the capacity much. Any condenser can be compared with it by means of an electrometer.

14. *Thomson's Quadrant Electrometer*, by White of Glasgow, with Thomson's key.

15. *Condenser* $\frac{1}{2}$ microfarad by Elliott.

16. *Commutators* for high (say 1 inch spark) as well as low tension.

17. *Rowland's Galvanometer* for the absolute measurement of discharges of high tension. Constructed by Rowland and Schneider. Coils wound with paper between, and boiled in paraffine *in vacuo* at 100°C . to be thoroughly dry. Needle shielded from electrostatic action, and deflection read by mirror and scale. Number of coils about 11000. Constant on the cm. gr. second system 19091. = G of Maxwell as determined by comparison with galvanometer described in American Journal of Science, vol. xv., p. 834. See no. 17 below.

18. *Rowland's absolute Galvanometer* for the measure of quite weak currents. Constant 1833.2. See American Journal of Science, vol. xv., p. 834. Constant very accurately known. 1790 turns. Can be used as sine galvanometer or with mirror and scale. Horizontal circle reads to $1'$, but is readily estimated to

$30''$. Telescope and bar for determining horizontal intensity in exact position of instrument.

19. *Rowland's Tangent Galvanometer*, brass circle 50 centimeters diameter. Circle graduated to $15'$ and 20 centimeter diameter. From 1 to 243 turns can be used, the constant of each set being known with great accuracy. Made by Meyerstein, but altered and wound and coils measured by Rowland.

20. *Two Thomson's Galvanometers* of high and low resistance, the first differential with coils around both needles and set of shunts. Made by Elliott of London.

21. *Two Nobili Astatic Galvanometers* by Elliott, and one by Salleron.

22. *Wiedemann Galvanometer* with two sets of coils and two kinds of needles. Reading by mirror and scale.

23. *Galvanometer* with large wire for experiments on the damping effect of the coils on the needle, and for determining resistances in absolute measure. Designed by Rowland and made by Schneider instrument-maker at the University.

24. *Tangent Galvanometer*, wooden circle, with variety of coils of known constant.

25. *Mirror Galvanometer.*

26. *Rowland's wooden circle*, 84 centimeters diameter, carefully laid out of maple wood, and containing several grooves on the edge to contain single wires. It is used to surround a galvanometer when, by aid of the electro-dynamometer, the horizontal intensity can be measured at any instant. Extremely useful.

27. *Electrodynamometer* of form given in Maxwell's Electricity, vol. ii. p. 330. Outer circles about 27.5 centimeters diameter with 240 windings on each side. Constant, G, of outer coils 78.871 on cm. gm. second system. Inner coils about 5.5 centimeters diameter, with 63 coils in each. Moment of inertia of suspended coil accurately known. Constant calculated and also determined by comparison with a tangent galvanometer made of the circle described above. Made (partly) by Gurley of Troy, and circles wound and measured by Rowland.

28. *Electrodynamometer*, Quincke's form for weak currents. Made by Edelmänn of Munich.

29. *Standards of Resistance* mounted so that they can be placed in water. 1 and 10 ohms by Elliott; 10, 100, and 1,000 ohms by Warden, Muirhead, and Clark of London; also mounted in another style 1, 10, and 100 Siemens' units, by Siemens and Halske of Berlin. Also three copies of coil whose absolute resistance was determined by Rowland as $84.719 \text{ earthquad.} \div \text{sec.}$

30. *Resistance coils* in boxes 1 to 10,000 and 10,000 to 100,000 ohms by Elliott, and 1 to 10,000 Siemens' units by Edelmänn.

31. *Rowland's Resistance Comparator.* Ten coils of 10 ohms each, arranged so that they can be joined in series or abreast thus making 1, 10, and 100 ohms besides intermediate ones. Made by Schneider and adjusted by Rowland.

32. *Two bridges of Jenkins' form* for the accurate comparison of equal resistances, and also a Wheatstone bridge, having wire of platinum-iridium alloy one meter long, by Elliott.

33. *Magneto-electric Machine* for 1,200 candles, by Siemens Brothers, London, with engine to drive it, and both Siemens' and Foucault's lamps. Also battery of 60 large bichromate cells.

34. *Ruhmkorff coil*, spark 15 or 20 centimeters, by Ruhmkorff of Paris.

35. *Rowland's Earth inductor* with brass circle. 80 centimeters diameter, wound and measured by Rowland. Made by Meyerstein of Göttingen.

86. *Ruhmkorff's Apparatus* for diamagnetism. Made by Ruhmkorff of Paris.

87. *Electric Clocks* beating seconds from regulator.

88. *Rowland's Standard of electromagnetic Induction*. Three coils on brass cylinders which can be placed accurately on top of each other. See American Journal of Science. Mutual potential of coils with unit current 3775500., 2561974., 2051820, etc., on the cm. grm. second system.

89. *Telescopes, Scales, and Mirrors*. Silvered brass millimeter scale by Brown and Sharp. Mounted telescope by Steinheil, objective 4.0 centimeters diameter, with three oculars, giving powers of 20, 40, and 80. Unmounted telescope by Steinheil, objective 2.7 centimeters diameter, and 3 oculars.

Mounted telescope and paper scale by Meyerstein: objective, 2.7 centimeters diameter.

40 Thin mirrors and plain parallel glasses by Steinheil. The mirrors give a perfect image with the highest magnifying power.

Thomson's Replenisher on large scale for use with electrometer, Holtz and friction machines, Leyden jar batteries, Geissler tubes, &c.

Heat.

41. *Rowland's Instrument* for comparing the mercurial with the air Thermometer between 0 and 100° C. Constructed by Schneider instrument-maker at the University. Readings seldom differ more than 0.02° or 0.03° C. at any one point, especially up to 40° C., and a change is contemplated which will much improve it.

42. *Rowland's Instrument* for comparing Thermometers from 0° to about 300° C. Constructed by Schneider. Accurate to about 0.1° C.

48. *Regnault's Air Thermometer*, Golaz, Paris.

44. *Jolly's Air Thermometer*, by Berberich, Praeparator, Phys. Inst. Univ. of Munich.

45. *Regnault's Apparatus for Expansion of Gases* both at constant pressure and constant volume, also Regnault's form of Rudberg's apparatus, Golaz, Paris.

46. *Regnault's Apparatus for Tension of Vapors*, including: a. The boiler; b. The reservoir for compressed air; c. A rotary pump for compressing gases; d. Mercurial manometer. Maker, Golaz, Paris.

47. *Regnault's Apparatus for specific Heat* of solids, Golaz, Paris.

48. *Regnault's Hygrometer with Aspirator*, Golaz, Paris.

49. *Thermometers*, about 30 or 40, principally by Baudin, Paris, and Geissler, of Bonn. Many of these have been compared with the air thermometer as well as with standards by Fastré, Casella, or from Kew. The thermometers up to 40° C. undoubtedly represent the air thermometer more accurately than any so far constructed, and are supposed to agree with it to about 0.01° C. They have been compared with it eight times during about one year or more. The error in calorimetric investigations from using uncomparated thermometers may amount to two per cent.

50. *Rowland's Apparatus for determining Change of specific Heat of Liquids with temperature*. Constructed by Schneider.

51. *Dulong's Apparatus for the Heat of Combustion*, Salleron, Paris.

52. *Melloni's Apparatus* for radiant energy, Salleron, Paris.

53. *Two Instruments for the Calibration of mercurial thermometers*, one by Golaz and the other by Salleron.

54. *Rowland's Apparatus for determining the mechanical Equivalent of Heat*, or for investigating the specific heat of liquids and their change with rise of temperature.

This instrument was constructed by the aid of funds contributed by the Rumford committee of the American Academy of Arts and Sciences, but the instrument will remain for the present at Baltimore. It was constructed by Schneider. It is run by a petroleum engine, no. 66 below.

. To be constructed soon:—

Apparatus for compressing gases to 1000 atmospheres.

Apparatus for accurately determining the form of the adiabatic curve of gases and vapors at any temperature up to about 100° C.

Miscellaneous.

55. *Comparator*, by Meyerstein, for bars 1 meter long. Microscopes cannot be set nearer than 10 centimeters. One division of head of micrometer screws is about $\frac{1}{100}$ millimeter.

56. *Microscope Comparator*, designed by Rowland after Rogers' plan, and made by Grunow.

57. *Dividing Engine*, by Perreux. Free motion about 55 centimeters. Screw, $\frac{1}{4}$ millimeter thread. Head divided into 250 parts. 501 divisions of head gives 1 millimeter almost exactly. Subsidiary screw at right-angles to other one.

58. *Air Pumps*. Rotary and common, by Ritchie, of Boston: mercury, on Jolly's plan, by Berberich, of Munich.

59. *Rotary Pump* for compressing gases to 15 atmospheres, Golaz, Paris.

60. *Three Mercury Gauges*; one about 25 meters high, and measuring pressures up to about 83 atmospheres; one movable and measuring pressure from 1 to 4 atmospheres; and one measuring from 0 to 1 atmosphere.

61. *Barometer*, by James Green of New York, with very large tube.

62. *Two Cathetometers*, one by Meyerstein, and the other by Salleron.

63. *Standard Meters*, compared at Washington.

64. *Balances and Weights*. One balance weighing to 5 kilo. and accurate to about 1 mg. with weights from 5 kilo. to 1 mg. One weighing to 200 grms. accurate to about 0.1 mg. with weights from 100 gr. to 1 mg. These are by Schickert of Dresden. One heavy balance weighing to about 25 kilo. and accurate to about 0.1 grm. by Schneider.

Standard glass kilogramme on Jolly's plan, and compared with Berlin standard. From Berberich in Munich.

The first balance mentioned is mounted on top of a case, so that globes for weighing gases can be suspended beneath it.

65. *Clock-work* with Foucault's regulator for running small apparatus at a regular velocity.

66. *Petroleum Engine* of three-horse power. It is capable of giving a large amount of compressed air at more than 100 pounds to the square inch pressure, and might be used for repeating Thomson's and Joule's experiments, or any others on the flow of gases.

67. *Two Spherometers*, large by Meyerstein, and small by Salleron.

68. Several extra micrometer eye-pieces.

69. *Apparatus for Researches on the Flow of Liquids* Greatest available head about 1.4 meters.

. Nos. 13, 24, 25, and 27 and the silvered scale of no. 29 belong to Professor Rowland, but are used in the laboratory.

BIOLOGICAL LABORATORY.

In charge of Professor H. N. Martin.

Apparatus for exact Measurements.

1. *Pendulum myographion*, modified from Fisk's: available for the measurement and analysis of rapid movements. The instrument consists essentially of a pendulum carrying a glass plate at the bottom, swinging on friction rollers, and corrected for the latitude of Baltimore, so as to swing in one second. Behind the pendulum is a divided arc, and the amplitude of the swing can be varied from a few inches to four feet. In use, an electro-magnet is moved along the divided circle, and then—the current being closed through it—the pendulum on being raised is held by it. On the other side is a catch, also movable along the arc. By turning a key at the side, the current in the electro-magnet is broken, and the pendulum swings across, and is held by the catch on the other side. During its transit, the movement to be analyzed is inscribed on the glass plate, which is previously smoked. Designed by A. G. Dewsmith, Esq., Trinity College, Cambridge, England. Made by Elliott, London.

2. A set of three pairs of König's recording tuning-forks for measuring small periods of time: giving respectively 50, 100, and 200 double vibrations per second.

3. Bernstein's differential rheotom, with Helmholtz's electromotor to drive it. Zimmermann, Heidelberg.

4. Two Sir Wm. Thompson's reflecting galvanometers; one large and the other small resistance. Elliot. London.

5. *Ludwig's kymographion*: to give uniform horizontal movement to an endless sheet of paper, on which vertical movements can be recorded and subsequently measured and analyzed. The instrument is provided with an electro-magnetic chronograph. Made by Fulcher, Cambridge, England.

6. *Kymographion*. Modification of the above. Made by Warden, Muirhead, & Black, London.

7. "*Signal*" of Deprez. Electro-magnetic chronograph, recording up to 250 double vibrations per second.

8. *Chronograph* of Masey. Similar to above, recording to $\frac{1}{100}$ ths of a second.

9. *Spectroscope*, one prism, by Browning, London.

10. *Wild's Polaristrobometer*. Schmidt and Haensch, Berlin.

11. *Completely fitted Microscope* by Zeiss, Jena. With microspectroscope and polarizing apparatus.

12. *Seconds Clock with electric Attachment*. Elliott, London.

ADDITIONS TO THE LIST OF APPARATUS
BELONGING TO THE AMERICAN ACADEMY OF ARTS AND SCIENCES.

5. *Micrometer-level*, constructed by Alvan Clark & Sons. Telescope 45 centimeters focal length and 4 centimeters aperture, in Y's moved by vertical micrometer screw reading to 0'.8 by estimation of tenths. Intended also for use with eye-piece micrometer. One division of level tube (0.15 cms) = 8''.7. Transverse level and slow motion for rotating telescope in Y's. Horizontal finding circle graduated to degrees.

6. *Light Micrometer-level*. Telescope 21 centimeters focal length and 2.5 centimeters aperture, in Y's moved by vertical micrometer screw, reading to 1''.4 by estimation of tenths. One division of level tube (0.25 centimeters) = 1''.8. Horizontal finding circle graduated to degrees.

7. *Microscope-tube* and accessories, specially designed for measuring spectrum photographs. Also a *standard plate* of 24ths of an inch: rulings on glass by Prof. William A. Rogers.

8. *A large double Induction Coil* of the form devised by Prof. John Trowbridge.

9. *Apparatus for the determination of the mechanical equivalent of Heat*. Devised by Prof. Henry A. Rowland of Johns Hopkins University and now in his charge.

From

Library of Harvard University.

13
H. 13. 1

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 6.



THE COLLECTION OF BOOKS AND AUTOGRAPHS

BEQUEATHED TO

HARVARD COLLEGE LIBRARY,

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UNIVERSITY PRESS: JOHN WILSON AND SON.

1879.

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michel Angelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
- *10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.

THE SUMNER COLLECTION.

. The following list comprises such of the books and manuscripts in the library of CHARLES SUMNER, bequeathed to Harvard College Library, as have bibliographical or other curious interest.

Achilles Tatius. Dell' amore di Leucippe et di Clitophonthe, nvovamente tradotto dalla lingua greca [by F. A. Coccio]. Venetia, *Lorenzini*. 1560. sm. 8°. ff. (7), 113 [111]. *Vign.* 1 vol., vellum.

The title-page is illustrated. A few MS. notes are on the margins and inside of the front cover.

Addison, JOSEPH. Cato. A tragedy. As it is acted at the Theatre-Royal in Drury-Lane, by Her Majesty's servants. London. 1713. 8°. ff. (4), pp. 62 +. *Large paper.* 1 vol., red mor., gilt.

This is the original edition, mounted on fine drawing paper, and with the following illustrations added by Mr. John Dillon: — 1. The playbill of what was probably the last performance of Cato, in London, Jan. 9, 1812. — 2. Two portraits of Kemble as Cato, with interesting autograph memoranda by Mr. Dillon. — 3. Portrait of Addison by Houbraken. — 4. Autograph letter of Addison to Ambrose Phillips, dated Dec. 31, 1708. — 5. Portrait of Addison. — 6. Extract from "Iconographie instructive," containing a biographical sketch of Addison. — 7. Three portraits of Alexander Pope. — 8. Portrait of Robert Wilks. — 9. A curious original document signed by Barton Booth, Robert Wilks and Colley Cibber (three of the original players of Cato). — 10. Two portraits of Barton Booth. — 11. Two portraits of Colley Cibber. — 12. Portrait of Garth.

Ælianus, CLAUDIUS. Æliani Variæ historiæ libri XIII. Rerumpublicarum descriptiones ex Heracleide. Cum latina interpretatione. Editio postrema, multo quàm antehac emendatior. [Translated and edited by Justus Vultejus. Coloniae Allobrogum], apud Ioan. Tornassium. 1610. 32°. *Port.*

The name of the place in the imprint is written in ink. — On both sides of the cover is stamped in gilt the coat-of-arms of some bishop and count of France. The library has also a copy of the 1645 edition.

Allaoui (Lat. Allatius), LEONE. De libris ecclesiasticis Græcorum, dissertationes dvæ: quarum vnâ, diuinorum officiorum potiores & visitationes libri percensentur; alterâ, tridodium, pentecostarium, & paracletice examinantur. Parisiis. 1645. sq. 8°.

"Louis XIVth's copy, in rich old red morocco, gilt edges, the sides and back covered with the crowned L and fleur-de-lys, intermingled in gold, and having the royal arms within a wreath as centres." — See printed slip pasted on fly-leaf.

A MS. note on fly-leaf, signed "Carolus de Mervinille studio-rum præfectus," certifies that on Aug. 3, 1672, this book was given by the king to Christopher Fromont. On the title-page is written, "Ex libris Christophori Fromont 1677."

Anania (Lat. Ananias), GIOVANNI LORENZO. De Natvra Dæmonvm, Libri Quatuor. Cum Indice Rerum memorabilium. Venetiis, apud Aldum. 1589. sm. 8°. ff. (6), pp. 211. *Vign.* 1 vol., br. crushed levant, gilt, with inside borders prettily tooled. Bound by F. Bedford.

Pasted on the first front fly-leaf is a printed notice of the book.

Antoninus, MARCUS (ANNIUS VERUS) AURELIUS, Roman Emp. Pensées ou Leçons de vertu que ce prince philosophe se faisoit à lui-même. Nouvelle traduction du grec, distribuée en chapitres, suivant

les matières, avec des notes & des variantes. Par M. de Joly. Paris. 1770. 8°. *Port. of the dauphin and of Marcus Aurelius.* 1 vol., pig-skin, gilt, lined with figured gilt paper.

This book is dedicated to the dauphin, afterwards Louis XVI., and has his coat-of-arms, stamped in gilt, on both sides of the cover. Pasted on the back of the first front fly-leaf is a printed notice of the book. — On the title-page is written, "H⁷ de Coloujon."

[**Apianus (Germ. Bienewitz, or Bennewitz), PETRUS.** Cosmo | graphiæ Introductio | cum quibusdam Geometriæ ac Astro | nomia principijs ad eam | rem necessarijs [Colophon: —] Venetijs per Io. Antonium de Nicolinis de Sabio, | sumptu & requisitione D. Melchioris | Sessæ. Anno Domini. | MDXXXV. Mensis Ianuarij. sm. 8°. ff. 31, (1). *Vign., diagrs. and maps.*

See *Harrison's* "Biblioth. Amer. Vetust.," p. 333, no. 202. The passages relating to America are marked on the margin with pencil, and a MS. translation into English is inserted between ff. 22 and 23. The library has another copy with 1532 in the colophon.

Aretino, PIETRO. La vita di Maria vergine. Nuouamente corretta e ristampata. [Venetia. cir. 1540.] sm. 8°. ff. (148). *I. L. 2 ports.*

See *Brunet's* "Manuel du libraire," I. 416. On the first front fly-leaf is written, "Cuesto Libro e di Eustacio de la Salle di Reina. 1594."

Ariosto, LODOVICO. Orlando furioso, tvtto ricorretto, et di nvove figvre adornato. Con le Annotationi, gli Auertimenti, & le Dichiarationi di Girolamo Ruscelli, la Vita dell' Autore descrittâ dal Signor Giouambattista Pigna, Gli Scontri de' luoghi mutati dall' Autore doppo la sua prima impressione, La Dichiaratione di tutte le Istorie, & Faule, toccate nel presente libro, fatta da M. Nicolò Eugenio. Di nvovo aggiuntovi Li cinque Canti, del medesimo Autore. Et vna Tauola de' principij di tutte le stanze, & altre cose vtili & necessarie [by G. B. Rota]. Venetia, *Vincenzo Valgrisi.* 1566. 8°. ff. (16), pp. 682 [678]. *Vign. and 51 plates.*

The "Cinque canti" has a special title-page, with the date 1565 in the imprint.

This copy belonged to Louis XIV., king of France, and his arms are stamped in gilt on both sides of the cover. — See printed notice pasted on the first front fly-leaf.

Aristoteles. Problèmes d'Aristote et avtres philosophes et Médecins selon la composition du corps humain. Auec ceux de Marc Antoine Zimara. Item, Les solutions d'Alexandre Aphrodisee, sus plusieurs questions Physicales. Lion. 1570. 8°. ff. (4), pp. 252, f. (1). *Vign.* 1 vol., gr. crushed levant, gilt. Bound by Cape.

This translation has been attributed to George de La Bouthière. — See *Barbier's* "Dict. des ouvrages anon.," III. 1048; *Brunet's* "Manuel du libraire," I. 475. The volume is from the library of the marquis de Morante, and his book-plate, stamped in gilt on brown morocco, is pasted on the inside of the front cover. — See *Morante's* "Catalogue," etc. I. 64, no. 331, where the translation is ascribed to Jean Castriot.

[**Auguis, PIERRE RENÉ**]. Les révélations indis-crètes du XVIII^e siècle; par le cardinal de Bernis, Bossuet, Cabanis, Cérutti, Champcenetz, la marquise du Châtelet, Chénier, Diderot, Duclos, Franklin, M. Garat, Mme. Geoffrin, Hérault de Séchelles, le r. p. Lachaise, Laharpe, M. Mercier, J. J. Rousseau, Saint-Martin, Thomas, Voltaire, Washington, etc.; le tout précédé des confessions, lettre apolo-gétique sur l'état présent de la littérature. Paris. 1814. 12°.

Imperfect: pp. 177-180 are wanting.

Augurelli, GIOVANNI AURELIO. Ioannis Avrel-ii Avgvrelli [poemata]. — *In fine*: — Venetiis in ædib-us Aldi mense April. M. D. V. 12°. ff. (128). f. l.

The 1st folio contains only the name of the author; the ad and 127th are blank; the 128th contains the anchor. Stamped in gilt on the sides are the arms of Louis Joseph de Bourbon, prince of Condé.

Augustinus, AURELIUS, Saint, Bp. of Hippo. Libri XIII confessionum ad 3. MSS. exmp. emen-dati. Opera et studio H. Sommali. Lugduni, apud *Danielem Elsevirium*. 1675. sm. 12°.

The title-page is engraved. On the inside of the second front fly-leaf is written, "Ex Libris Desjardins A. L. D." and on the third fly-leaf in another hand are written five lines, beginning "qui dit," etc. signed "A. L. D." as before; on one of the fly-leaves at the end of the book is written, "Renouf 1859 (?)".

Autographs. [Album amicorum Christiani Gravii. MS. containing the autographs of John, Christian, and Maurice, Dukes of Saxony, 1639, Hermann, Landgrave of Hesse, 1632, Christian and Ernest, Landgraves of Hesse, 1633, William and Philip, Landgraves of Hesse, 1638, Louis, John, George, and John Casimir of Anhalt, 1641, P. G. Count of Hohenloe, G. Cruciger, J. Matthæus, J. G. Dorscheus, J. Macrinus, J. Schmidt, J. R. Salzmann, J. Valentinus, Caleb Hasselt Voltager, C. C. Cruciger, and of numerous learned professors, &c., with drawings of a cavalier playing on the lute, and of coats-of-arms. 1632-45.] obl. 32°. ff. (212).

125 only of these leaves are written on; there are besides three vellum leaves inserted, on one of which the "cavalier" is drawn. — The title is taken from the printed notice pasted on the inside of the front cover.

Autographs. [Autograph album, which formerly belonged to Camillus Cardoyn, a Neapolitan nobleman, who resided in Geneva from 1608 to 1640.] sm. 4°. pp. 283. 32 painted *escutcheons*.

Contents: — Sara Sarassin, Geroldus Edlebachius, Joh. Henricus Svicerus, H. Sales, Friderich Jeune Marquis de Baden, C. Gryhanus princeps Anhaltinus, P. M. C. de Hairax, Jean Rodolphe Steiner, A. Van der Graeff, Gulj. Vander Graeff, Theodorus a Leubben, William Vuciale, Thomas Bilson, Henry Winwood, Ludovicus Comes Wittensteinensis, Henry Clifford, W. Cranborne, Rose (?), Thomas Whartonius, Bernardus Baro de Virta, Emanuel de la Nagelle (?) Seigneur de la Riche-quitard (?), Henry Fitzwalters, Henry de Chinray Segneur de la Barre (?), Georgius Baro Berkeley, Jodocus Janssonius (?), Spe-Compton, Jean Frideric Peyer de Haslach de Schaffouse, Sly-regerge de Brite (?), Will. Pagett, Fra: Stane (?), Guillaume Spenser, Andr: Knyveton Baronet, Richard Holt, Galf. Nightin-gale, Gugliel. Duci, Jacques de Croft, J. Touche, Edward Bon-sam, G. Trumbull, Will. Gresley, Cesar Erard (?), Hieronymus Rana, Jeronimo Coijmans, Henry de Wilhelm, Matthias Boelius, Ludovicus Eberhardus, Philippus Henricus Comes ab Hohenloë et Dominus in Lungb., Jean Baron de Zerotin, Bartolomeus Baro à Zerotin, Fridericus L. Baro à Kaunia, Balthasar Baro à Zerotin, Charles Cristof Baron de Zerotin, Callus L. Baro in Rüggnitz et Pernegge, Joannes Fridericus à Wolfstein, Baro in Superiori Saltzburgo et Dña in Frybaum, Bernhardus Werdmyl-lerus, Joannes Corrance, Edward Ayscoghe, Mauritius L. Baro in Rüggnitz et Pernegge, Sigismundus L. B. de Burchhaus et Stolz, Joachims Gerstorf, Jean Christophe de Maxen, Joannes Dormer, Caspar Heinrich von Bamsdorfus, Edmundus Battj, — Christophorus Witzendorf (?), Cornelius à Beresteyn, THOMAS WENTWORTH, [Earl of Strafford], Joannes Camber, Henricus Guiljelms à Starhemberg, Gundaccarus à Starhemberg, Georgius junior Baro à Starhemberg, Wolfgangus Baro à Starhemberg, Philippus Fridericus Breiner L. Baro,

Jacques Vanden Damme, Gothofredus Breiner L. Baro, Sittich de Berlebach, Joannes Lager, Daniel Sinapius, Otto Mordian de Malzpurgh, Jolian Mainloff von der Malzpurgh, Richardus Griffith, Moritz von Haddien, Rickletius ab Haddien, Adrianus Zieglerus, Joannes Parkinson, William Dunche, J. Tracy, Uiricus Wencelass L. Baro à Biberstein, Joli. Henricus Meis-terus, Will: Marshall, Moritz von Falkner, Josas Carl Schuch (?), Ludowig von Werlorsseamus (?), F. B. Flodroff Raue (?), Gilbert Pykeringe, Waller Strickland, Jehan Reidesel (?), Cesar Calandrius, Joh. Gosuyn Bosman, Bartholome Reael, Joh. Andreas à Corput, Daniel A. Hysbage, Christoff von Krickschwitz, Sigismund von Krickschwitz, Millet von Hang-witz (?), Franz von Nessitz (?), Corn. Gothofredo Finich, Chris-tophe Ernst de Ueberiz, Warkneart Urzeik von Urzeik (?), Ulrich Protz, Tho: Whitaker, Gannes Gartmann (?), Caius Danboer, Luhr Megapolibo (?) Alhauit von Braadsin, Loys de Bile, David Weznik de Weznik, JOANNES MILTONIUS, Dan. Bougeton, Thomas Tirrell, R. Baker, Jacobus Hamiltonus, Rich. D'Ewes, Forso de Veis (?), Joh. à Drist, Joan. Steinberg, Imannus de Zuylands, Jacques de Herloge, Ernst Friderich von Norme, C. Croock, Guiljelms Bischof, Augustus Ivachstedt, Heinrich von Einsiedel, Caspar von Stem, Frans Philip Mar-shall von Orheim, Tobias ab Hamberg (?) Marcus Mauritius Normanus, S. Klybescus (?), Joannes Regnardus, Henry de Schweintz, Adam de Schweintz, Johannes à Schweinichen, Jacobus Brund, Jacobus Bromel, Odetto de Manua, Justus Zin-gerling, Philipp Streuff, Joachimus von Bock, Joachimus Wernerus, Johan Georg von Salsledt, Franz von Wethen, Swigs. Dan. Wags., Johan de Mario à Gammanotorn, Petr. von Scholtzordt, Joam Jacob Vinther, (Sr.), Joam Jacob Vinther, Jr., Christophorus Finck, Henricus Worden-hoff, Albertus Finck, Christian Rösling von Scheirbergh, Renard Hori (?), Fridericus Rosa, Christianus Rosa, Domi-nicus à Syxma, Caspar von Dorlar, Joannes Ludovicus Wolf, Robertus Hadley, J. HAMPTON, Roger Knight, Jacob Heinrich Hartz von Bertsbach, Hieronymus Hagelsheimer, Joannes Wismanus, Christophorus Agricola, Grithus Mad-docks, Michael Bartschius, Thomas Gurrieus, Hugo May, Otto von Halchwei, Guil: Wingfelds, Guil: Armyus, Henricus Poulettus, Nicolaus Eggebrecht, Riccardo Norton (?), Clemens Colmerus Abrahamus Plato, Georg. Preussen, Hamfredus Tufton, Wm. Crayford, Carolus Fridericus ab Inhausen et Knipphausen, Caspar von Wohwolds, Gerlach Ernst von Borum (?), Jean Morrien, Hieronymus Ettlich, Jean de Beveren, Caspar Menning, Bernhardus Forchenbeck, Joannes Vieth Dietmarus, Joe. Georgius Zieglerus, A. Crastander (?), Caspar Endelft, Petrus ab Uffell, Paulus Borenberg Junior, Theodorus Colbius, Laevinus à Frybergen (?), Jacobus à Frybergen, Johan Christoph. Schwallenberg, Andre Koch, Carl Rando, Leopoldt Kennert, Teodor von Bankkauf (?), Adam Wall von Knecht-witz (?), Siegfrit von Flader, Hugo Roszus, Johannes Francus, Ernestus Schefe von Zell, Martinus Dalemius Schenaz, Hob-bius ab Aylua, Joannes Rous, François Lodreman de Milly, Fridericus Lingelsheimius, Julius (?) Guil. Zingrefius (?), Johan Burcard Wetel, Matthias à Viersseu, Otto Hobbema, Joannes Vucysseig, John Smythe, Eric von Lanthe (?), Basset Cole, De Laforge, Joh. Henr. Halberg, Hermannus ab Hundschausen, Jo. Junius, Henrico Kivit, Hieronimus Pretor (?), — Henricus Lindner, Joannes vom Berg, Leonhardus Widmannus, Nicolaus ansonius, Joachims Kraz, Andreas Örtol, Georgius Christoph. Örtol, Anthony Weldon, Paulus Stoll, Philippus Seagel, Bernhardus Rosing, Guglielmo Vianer Burch, Joh. Celarius Horib, Nicolaus Ritterbusius, Joh. Christophorus Stollus, Edwardus Wrayus, Hermannus Vulteus, Casparus Haller von Hallerstein, Burchardus Ewick (?), Simon Erman, Tho. Le Gros, Henry Butler, Wolfgangus Adamus Pachobe, Ed. Iron-side, John Cooke, Fred. de Wries, Adv. Vander Houck, Joh. Daniel Herpffer, Fridericus Praun Korib, Michel in Curia de Nuremberg, Georgius Fick, Eberhard Reinsfeldt Georg von Rottnitz, Fridericus à Canitz, — Joachim Ender, Reimar Fridrich v. Vrieteapelt (?), Casparus à Stofel, Leonhardt von Vestitz, Georgius à Rollwitz, Johan Burchard, Giovanni Am-monio, Jean de Wolff de Spanheim, Wilhelm Beuner, Stephanus Dobbin, And. Conradt Güstrov, Valentin Ebertus, Thomas Hungerford, Jean George de Zeditz, Johann Sanderh von Landes, Edmund Gybbon, Joh. Henricus Holzhalbuis, Chris-tian Walens, Hans Christoff von Rothentib, Heinrich Fried-rich Springfeldt, Jacobus Prior Delph, Justus Hennings Storrer, Petrus Bergius, Jesovus Vexillum (?), Jean Moule, Theodorus Oelent, Georgius Fridericus Forn, Otto Hartman von Shlatzgo, Johan von der Kock, Friderich von d Kock, Johannes Friedenberg, Fridrich Sack, Pub. Wimberley (?), F. Elzevier, Henry Bludder, Julius Bludder, Robertus Hassard, Samuel Browne, Henry Druhmejer, Hermannus Barchhesen, Joachims Godersen, Ldvid Penshorn, Johannes Sutton, Nicla-us Wind, Augustus Vindelius, Georg Bartholmæ, David Erhart, Josué Kixton, Sam. Tomson, Georg. Thomason, Jean Heidock, Conradus Schiniketus, Zacharias Libbehe, Octavian Pullen, George Courtbop, A. Helligrew (?), Nicolaus Wolf-gangus, Christianus Scheel, Otho Ruess, Georgius Fraem, Achilles Krager, Christian Stougard, Wittm. Bagot, James Hodgson, Victor George, Heinrich Langenberk, Johannes Jürgen Hychoda, Joachim Edwarmsen, Daniel Herringsen, Johannes Rodolphus Heisterus, Theodore de Reik, Johannes

Ludovicus de Langenback, De Ceuff, Jacobus Bordelius, Jacobus de Boch, Nicolaus de Bye.

Between pp. 109 and 110 is a cutting from the "London daily news" of Oct. 3, 1861, about the autographs of Milton; also, a scrap from the "Boston evening transcript" of Jan. 9, 1860, in reference to this album. On the first page is Cardoyn's own name and coat-of-arms. On the third page is a list of the pages where important names occur.

A tracing of the autograph above noted of J. Hampden was submitted to Mr. Bond, keeper of manuscripts in the British Museum, who unhesitatingly says it is not that of the English patriot.

Autographs. [Autograph album, which formerly belonged to John Esaias Sommer, probably a native of Gotha, containing pen-and-ink and pencil sketches and complimentary inscriptions by many of his friends, which are dated at different places. The dedicatory leaf reads:—"Sufficit. Excellentes Præclarosq. Viros vidisse atq. eos adijisse. Johannes Esaias Sommer Gothan. Anno 1680. d. 12 Sept.:"—Preceding this is a portrait of Sommer, around which is the legend, "Spes mea Christus."] ff. (132). obl. 24°.

Ninety-seven leaves are blank; some of the sketches are unfinished, and many have no name appended. On the outside of the front cover is stamped in gilt "J. E. S. 1680." A printed notice of the album is pasted on the inside of the front cover.

Autographs. [Franks of commoners. 1800-1840.] 6 vol. 8°.

Vol. I. has the book-plate of George Grote pasted on the inside of the front cover.

Autographs. [Franks of peers. 1799-1845.] 6 vol. 8°.

Autographs. [Manuscript letters, documents, etc. written or signed by George Monk, duke of Albemarle; William Prynne; duke of Alva; Sir Francis Bacon; Louis Blanc; Charles V., Roman emperor and king of Spain; Christian Ernest, Ernest Frederick I., Francis Josiah, dukes of Saxe-Coburg-Saalfeld; Louis de Crillon; Oliver Cromwell; Cardinal Guillaume Dubois; John William, duke of Saxe-Eisenach; Elizabeth, of Bohemia; Francis I., of France; Frederick I., Frederick II., Frederick III., Ernest II., dukes of Saxe-Gotha; Hugo Grotius (*Dutch De Groot*); Hans Hartmann von Erffa; Henry III., of France; Henry VIII., of England; Charles de Latouche; Frederick II., of Prussia; Maximilian I., Roman emperor; Bernard, Ernest Louis I., Frederick William, Anthony Ulrich, George Frederick Charles, dukes of Saxe-Meiningen; Louise Eleonore, duchess of Meiningen; Philipp Melancthon; James Monroe; Alexander Murray; Philip II., of Spain; Timothy Pickering; René I., duke of Anjou, count of Provence, etc.; Cardinal Richelieu; Henry, duke of Saxe-Römhild; Sir Samuel Romilly; Jean Jacques Rousseau; John Ernest, duke of Saxe-Saalfeld; Wallenstein; William Ernest, duke of Saxe-Weimar; Capt. Edward West.] 4°. 6 *portrs.* and *engr.*

Autographs. [Manuscript letters, documents, etc. written or signed by George Villiers, 1st duke of Buckingham; Charles IX., of France; Elizabeth, of England; George II., of England; Henry IV., of France; Henry VII., of England; Thomas Jefferson; James Madison; Leibnitz; Louis XI., of France; Louis XIII., of France; Louis XIV., of France; Cardinal Mazarin; Catherine de' Medici; William Mitford; Cardinal Richelieu.] 1°.

Autographs. [Manuscript letters, poems, essays, memoranda, etc. by distinguished men and women of Europe and America. Collected by Charles Sumner.] 3 vol. 4°.

I. Autographs of J. Q. Adams; J. L. Adolphus; Sir E. H. Allerton; Washington Allston; Anne, of Austria; Lady Anne

Margaret Anson; Benedict Arnold; Sarah Taylor Austin; Charles Babbage; Joanna Bailie; George Baucroft; S. Bannister; Joshua Bates;—Bauer; Dr. Osmond de Beauvoir; Jeremy Bentham; Richard Bentley; Nicholas Vanittart; Lord Bexley; Peregrine Bingham; Countess of Bessington; Robert Blum; Lucien Bonaparte; Mme. Maria Laetitia Ramolino Bonaparte; C. G. G. Botta; John Bowring; John Bradshaw; Sir David Brewster; Charles de Cosé, count de Brissac; Lord Brougham; Robert Browning; W. C. Bryant; William Buckland; Buckle; Bulwer Lytton; William Burge; Lord Byron; Sir John Campbell; Thomas Campbell; Georgiana Dorothy Cavendish, Lady Carlisle; George Howard, 6th earl of Carlisle; Thomas Carlyle; William Chambers; W. E. Channing; Sir Francis Chantry; Charles II., of England; Chateaubriand; Joseph Chitty; H. F. Chorley; Gen. William Clark; Henry Clay; A. B. Cochrane; C. R. Cockerell; Sir Edward Coke; Coleridge; Sir Thomas Colman; George Combe; James Fenimore Cooper; Philip Courtenay; Lord Cranworth; Cresswell Cresswell; Andrew Cross; R. B. Crowder; R. H. Dana; Lorenzo Da Ponte; Thomas, 1st Lord Denman; Charles Dickens; Thomas D'Oyly; Alexandre Dumas; Dumont; J. G. Lambton, 1st earl of Durham; Alexander Dyce; George Dyer; William Eaton; Eckermann; T. (?) B. (?) Edgeworth; Mountstuart Elphinstone; R. W. Emerson; Sir William Erle; Lord Erskine; Thomas Erskine, Esq.; Calvin Fairbank; Faraday; Theodore Sedgwick Fay; Fénelon; Ferdinand V., of Aragon; Isabella, of Castile and Leon; C. W. Wentworth, 5th earl of Fitzwilliam; J. P. Flax; J. B. Floyd; J. J. G. Félix; Sir W. W. Follett; John Forster; Elizabeth Gurney Fry; J. C. Fuller; Margaret Fuller; I. — (?) Garnier; Pascual de Gayangos; De Gerando; Ottavio Gighi; W. S. Gilly; Goethe; William Goodell; Robert Gourlay; Jakob, count de Gräbrog vom Hemso; Horatio Greenough; John Gregson; Mrs. Grote; Sir John Gurney.

II. Autographs of Adolf Haack; Sir Henry Halford; Hallam; Sir W. Hamilton; Sir W. R. Hamilton; John Hancock; J. C. F. Haug; Hawthorne; Abraham Hayward; Heeren; Sir John Herschel; J. A. Hillhouse; Prof. — (?) Hoerd; Hope & Co., bankers; Henry Hope; Hottinguer & Co., bankers; Samuel Gridley Howe; Mary Howitt; Alexander von Humboldt; Joseph Hume; David Humphreys; Leigh Hunt; Robert Ingham; Sir R. H. Inglis; Robert Innes (?); Edward Irving; Washington Irving; Andrew Jackson; Francis Jackson; G. P. R. James; Mrs. Jameson; David Jardine; Thomas Jefferson; Lord Jeffrey; A. I. Jones; N. H. Julius; Charles Kemble; John Kenyon; H. — Belledun Ker; A. J. Kermer; Rufus King; K. T. Koerner; Lafayette; Lamarine; Charles Lamb; W. S. Lander; Lord Langdale; Lord Lansdowne; J. — Temple Leader; Thomas Lefroy; Thomas William Coke, earl of Leicester of Halkham; Joseph Liard; Sir John Littleale; Lockhart; Longfellow; Lyell; Lord Lyndhurst; Henry Mackenzie; W. C. Macready; Mme. de Maintenon; J. H. Harris, 3d earl of Malmesbury; Edward Maltby, bishop of Durham; Horace Mann; Mrs. Marcot; Armand Marrast; John Marshall; W. — Marshall; Harriet Martineau; T. J. Mathias; Cardinal Mazarin; Lorenzo de' Medici; Marie de' Medici; M. H. E. Meier; C. F. Mercer; Herman Merivale; J. S. Mill; Gen. William Miller; R. M. Milnes, 1st Baron Houghton; Mirabeau; Mary Russell Mitford; Sir W. Molesworth; Basil Montagu; Mrs. Anne D. — B. — Montagu; Christopher Moore; Thomas Moore; Lady Sydney Morgan; Raphael Morghen; James Morier; Lady Mornington; C. W. F. Howard, Viscount Morpeth, 7th earl of Carlisle; Robert Morris; Lucretia Mott; John Athol, 2d Lord Murray; Lady M. — Murray; J. — W. — Mylne.

III. Autographs of Macvey Napier; C. G. Nees von Eisenbeck; H. A. Niemeyer; C. H. Phipps, 1st marquis of Normanby; Hon. Caroline Norton; Daniel O'Connell; W. — Ord; Ferdinand Philippe Louis Charles Henri, Duke d'Orléans; Philippe, Duke d'Orléans, regent of France; Paganini; Thomas Park; Sir James Parke; Isaac Parker; Joseph Parkes; Samuel Parr; Sir Robert Peel; Carlo Pepoli; S. C. Phillips; Willard Phillips; Lord Plunket; Jane Porter; W. H. Prescott; Mrs. (?) A. B. Procter; B. W. Procter; William Pulteney, Esq.; Josiah Quincy; Henry Reeve; Tapping Reeve; H. G. L. Reichenbach; J. F. Reiff; H. — Rich; Charles, 5th duke of Richmond; S. P. Rigaud; Emma Roberts; Sir John Robison; J. A. Roebuck; Edward Romilly; Sir George Rose; Edward Rushton; Lord John Russell; Carl von Savigny; Leopold Schmid; H. A. Schott; G. Schwab; T. H. Scott; Sir Walter Scott; Adam Sedgwick; Catherine M. Sedgwick; N. W. Senior; W. H. Seward; Mary Wollstonecraft Godwin Shelley; Lady Mary Shepherd; Rev. William Shepherd; Benjamin Silliman; Sir John Sinclair; James Smith; James McCune Smith; Sydney Smith; Mrs. C. A. Smith; William Smyth; Mary Somerville; Robert Southey; John Charles, 3d earl of Spencer; Horatio Sprague; John Thomas, 1st Lord Stanley; Thomas Starkie; John Sterling; J. C. F. Steudel; James Stewart, Jr.; Joseph Story; D. F. Strauss; C. R. Sumner, bishop of Llandaff and Winchester; Charles Symmons; T. N. Talfourd; Bayard Taylor; Henry Taylor; Zachary Taylor; Thackeray; William Theobald; Alexis de Tocqueville; John Horne Tooke; Toussaint Louverture; Uhland; Sir Charles Richard Vaughan; Sir John Vaughan; Petty Vaughan; Victor,

prince of Isenburg; Voltaire; Washington; Mrs. Martha Custis Washington; David Baillie Warden; Samuel Warren; Daniel Webster; J. W. Webster; Bernhard, duke of Saxe-Weimar; M. C. Patterson, marchioness of Wellesley; Richard Colley, marquis of Wellesley; Duke of Wellington; J. S. Wortley, 2d lord Wharcliffe; Henry Wheaton; William Whewell; William Wilberforce; John Wilkes; George H. Wilkinson; J. J. Wilkinson; N. P. Willis; William Wills; Hiram Wilson; K. A. F. Witzleben; Oliver Wolcott; Wordsworth; R. R. Wormeley; Rev. Francis Wrangham; Eliza Wright; Sir Watkin Williams Wynn.

[**Badia y Leblich or Castillo, DOMINGO**]. Voyages d'Ali Bey el Abbassi en Afrique et en Asie pendant les années 1803, 1804, 1805, 1806 et 1807. [Edited by Jean Baptiste Bonaventure de Roquefort.] 3 tom. Paris. 1814. 8°. *Port.*

The atlas is wanting.
On a fly-leaf is written, "A Son Altesse Sérénissime Monseigneur Le Prince de Talleyrand — Le General Badia." Pasted on the half-title-page is a sheet bearing the following inscription: — "Le General Badia, Espagnol, Envoyé par S. M. C. Le Roy Charles IV. en Afrique et en Asie sous le nom d'Ali Bey, demeure à Paris rue St Honoré num^o 292." Underneath this is written, "Autograph of the Author General Badia."

[**Beccaria, CESARE BONESANA, Marquis DI**]. Dei delitti e delle pene. Ed. 6^a di nuovo corretta ed accresciuta. [To which is appended, "Risposta ad uno scritto che s' intitola Note ed osservazioni sul libro Dei delitti, e delle pene."] Harlem, also Paris. 1766. sm. 8°. *Front. and vign.*

This volume was presented to Mr. Sumner by Rev. Sydney Smith, and has his autograph. On one of the fly-leaves is a quotation in Mr. Sumner's handwriting from the Edinburgh review, 1821, relating to the book.

— An essay on crimes and punishments. With a commentary attributed to Monsieur de Voltaire. [And "Remarks on the opinions of some of the most celebrated writers on crown law, respecting the due distinction between manslaughter and murder." By Granville Sharp; and "Opinion on duelling," by J. J. Rousseau.] Philadelphia. 1778. 8°.

On the title-page is the autograph of "S. Adams."

Bewick, THOMAS. Wood engravings of land and water birds. Never before published. Newcastle. [182-?] 4°. *Port. and 49 wdcts.*

"Only sixty copies printed."

Bible. Lat. (Vulg.) [Biblia latina. 1 Sam. xxxi. 5 — 2 Sam. v. 11, "esset saul: irruit," etc. — "nuncios ad dauid." Moguntia, *Fust & Schoeffner*. 1462.] f°. 2 leaves, fragment.

One illuminated capital is added by hand.

On this famous edition, the first which bears the name of a printer, and the place and year of its execution, see *Didot's "Bibliotheca spenceriana,"* 1. 11-18.

— *Eng. (C. V.)* [The Holy Bible, containing the Old Testament, Apocrypha and New Testament. Cambridge. 1637.] 4°. pp. 918. *G. L.* 1 vol., old cf., rebaked, with brass corners, centre-pieces and bands down the back.

This Bible formerly belonged to JOHN BUNYAN, and has his autograph on the title-page of the New Testament. A portrait of Bunyan is also inserted, together with a woodcut, representing the cottage in which he wrote the second part of "The Pilgrim's Progress." — The volume contains the book-plate of Richard Blofeld.

Imperfect: — the title-page and preliminary pages to the Old Testament, and pp. 17-20, 25, 26, 29-32, 67, 68 are wanting; and the corners and margins of several pages are worn off.

— *N. T.* Novvm Testamentvm græce, cum vulgata interpretatione latina, græci contextus lineis inserta. Quæ quidem interpretatio, cum à Græcarum dictionum proprietate discedit, sensum, videlicet, magis quam verba exprimens, in margine libri est collocata: atque alia Ben. Arise Montani hispalensis operâ è verbo reddita, ac diuerso characterum genere distincta, in eius est substituta locum. [Antuerpiæ], ex officina plantiniana Raph-

lengii. 1613. 8°. pp. 681+, ff. (3). *Vign.* 1 vol., shp., gilt, richly covered with fleurs-de-lis.

On both sides of the cover is stamped in gilt the coat-of-arms of some member of the royal family of France (?).

Bible — N. T. 'H καὶνὴ διαθήκη. Novum Testamentum, ex regis aliisque optimis editionibus cum curâ expressum. Amstelodami, ex officinâ Elsevirianâ. 1656. sm. 8°. ff. (6), pp. 703. *Vign.*

Racine's autograph is on the title-page and on the last leaf.
This title, and the one following, represent the *fourth* and *sixth* of the seven genuine Elsevir editions of the Greek New Testament. The seventh (1678) is in the library of the Divinity School; the others belonging to the series, 1624, 1633, 1641, 1662, and also the edition of Curcellæus (1658), which was from the Elsevir press, are accessible in a private library in Cambridge. Of these, the first and second are especially rare; the first being generally regarded by the critical editors as the proper representative of the so-called "Textus Receptus" or Received Text, a phrase borrowed from the preface of the second edition (1633) — "Textum ergo habes nunc ab omnibus receptum." There are small differences in the text of the different editions. See Reuss, *Bibliotheca Novi Testamenti Græci* (1872), p. 108 ff., whose statements, however, require some qualification.

E. A.

— — 'H καὶνὴ διαθήκη. Novum Testamentum, ex regis aliisque optimis editionibus cum curâ expressum. Amstelodami, ex officinâ Elsevirianâ. 1670. sm. 8°. ff. (8), pp. 703. *Vign.*

On the title-page are written, "Bibliotheca m^{rs} S^{ti} Vidasti," and "Thery."

— *Gospels.* (Selections.) Les évangiles des dimanches et fêtes de l'année suivis de prières à la Sainte Vierge et aux saints. Texte revu par M. l'abbé Delaunay. Désigné par Monseigneur l'archevêque de Paris [With an appendix. Edited by L. Curmer.] 3 pt. Paris. 1864. 4°. 101 *chromo-lith. plates*, 51 *illum. texts, vign.*, 80 *photogr.*, 141 *wdcts.*, etc. 2 pt. in 1 vol., red crushed levant, stamped with arabesques in gilt and black; gilt on marble edges, lined with green watered silk, in red cloth case. — 1 vol., ¼ red crushed levant, stamped with gilt and black on back, gilt edges, in red board case.

The title is taken from the appendix.
Each page of the 1st vol. is printed and ruled in colors and is surrounded by an illuminated chromo-lithographic border. The plates and texts are chromo-lithographed by Lemercier & Co., from miniatures and MSS. of the 8th to the 18th centuries, representing the work of Albert Dürer, Hans Memling, Jean Fouquet, Fra Angelico, Lorenzo Monaco, Attavante, etc. The photographs, being reproductions of the engravings of the brothers Jean, Jérôme and Antoine Wiérix, are in the appendix, and have a special title-page, reading: — "Les frères Wiérix — La vie de la Sainte Vierge — La divine enfance — La passion de notre Seigneur Jésus Christ — Les saints et les saintes Paris." The "Description de l'ornementation des Évangiles" in the appendix is in 2 pt., each having an illustrated title-page. In each the pages are ornamented on one side with a fanciful border. In the 2d pt. these borders contain 131 of the woodcuts, copied chiefly from designs by Martin Schöngauer, by Otto Vœnius, in "Emblèmes de l'amour humain," by Jost Ammon, illustrating the work of Hartmann Schopperus, entitled: — "De omnibus illibera ibus sive mechanici artibus," etc. and by Iollat, Beham, and Holbein illustrating the "Grande danse macabre."

Binet, ÉTIENNE. Méditations affectueuses svr la vie de la trèsainte Vierge mère de Dieu. Anvers. 1632. sm. 8°. 33 *engrs.* 1 vol., blue crushed levant, gilt on marble edges. Bound by Trautz-Bauzonnet.

The title-page is engraved. — The engravings are by Charles de Mallery, after Th. Galle.

Boccaccio, GIOVANNI. Il Decameron 2 pt. (paged continuously). Firenze. 1820. sm. 12°. ff. (2), pp. xvii, 910 +. *Front. and port.* 1 vol., cf., gilt; covers lined with cf., gilt, richly tooled, the first and last fly-leaves lined with green watered silk.

Also with an engraved title-page.
"Notizie sulla vita e gli scritti di Gio. Boccaccio," pp. lx-xvii.

Borrtlaus, MARTIN. In cosmographiae elementa Commentatio. Astronomica. Geographica. Basileæ, per Joannem Oporinum. [1555.] sm. 8°. ff.(7), pp. 132 [131]. *Diagrs.*

Bosso, or Bossi (Lat. Bossus), MATTEO. [Fol. 1st tit. : —] Matthaei Bossi veronensis ca | nonici regylaris in Iesv Chri | sti saluatoris passionē fle | bilis et devotissimus sermo. [Colophon : —] Impressum Bononiæ per Platonem | de Benedictis de Bononia | Anno salutis Milesimo | quadringētesimo | et nonagesi | moqnto | tertio Idus nouem | bris | sm. 4°. ff. (12).

The initial D at the beginning is supplied in red ink.

For a full and accurate description see *Hain*, I. 1. 506, no. 3678; *Osmond's* "Dict. typog.," I. 127.

— *In fine* : — Matthaei | Bossi Veronensis | canonici regylaris | vera | et | salvtaria animi | gaudia | finivnt | [Colophon : —] Impressit | Florentia | Ser Franciscus Bonaccur | sius. Anno Salutis | M.CCCC. | LXXXI. | Sexto Idus | Febrvrii. sm. 4°. ff. (89).

For a full and accurate description see *Hain*, I. 1. 506, no. 3672; *Panzer*, I. 417, no. 123; *Osmond's* "Dict. typog.," I. 126.

A MS. title-page has been supplied, which is beautifully ornamented in India ink; the omitted initials are also supplied by hand and filled in with little India ink drawings. On the back of the first front fly-leaf are MS. notes about the book. The reference there to Osmond is not, however, correct; he does not mention a copy bound with the "Sermo in passionē Christi."

On the inside of the front cover is pasted the coat-of-arms of Girardot de Tréfont, from whose library this volume came.

Bossu, N. Nouveaux voyages dans l'Amérique Septentrionale, contenant une collection de lettres écrites sur les lieux à M. Douin. Amsterdam. 1777. 8°. *Front.* and 3 *plates*.

On the title-page is written, "à la Bibliothèque etc. d'Amiens. 1802. B."

Brice, or Brie (Lat. Brixius), GERMAIN. Antimorus. Conrat. Resch Venundatur sub Scuto Basiensi. [Lutetie ex officina Petri Vidoue.] 1519. sm. 4°. ff. (36). 1 vol., red crushed levant, gilt, richly tooled. Bound by Capé.

Contents : — Salmonii Macrini Ad Germanū Brixium Christiania. Regine a Secretis Hendecasyllabi. — Germani Brixii Hendecasyllabi ad Salmonium Macrinum. — Germanus Brixius Lectori. — Germani Brixii Antisiodorensis Thoma Mærum Anglum Chordigere Calumniatorem Antimorus, sylvæ. — Thome Mæri lapsus inexcusabilis in syllabarum quantitate. — Erasmus Roterdamus Germano Brixio. — Germanus Brixius Desiderio Erasmo.

The title-page is engraved, and each page is surrounded by a red-line border.

For a description of the book see *Brunet*, III. 1894, under the head of *MORRIS*, Sir Thomas; *Graesse*, I. 545; *Panzer*, VIII. 57, no. 1108; *Wood's* "Athenæ oxon.," I. 89, 90.

[**Brougham, HENRY, Baron Brougham and Vaux**]. Albert Lunel; or, The château of Langue-doc. 3 vol. London. 1844. 12°.

"Lord Brougham's suppressed novel. Lowndes says that only five copies escaped destruction." See fly-leaf.

Bryan, MICHAEL. A biographical and critical dictionary of painters and engravers, from the revival of the art under Cimabue, and the alledged [*sic*] discovery of engraving by Finiguerra, to the present time: with the ciphers, monograms, and marks, used by each engraver; and an ample list of their principal works. Together with two indexes, alphabetical and chronological. To which is prefixed, an introduction, containing a brief account of the painters of antiquity. 2 vol. in 4 pt. (the 2 pt. of each vol. being paged continuously). London. 1816. 4°. *Port.* of Bryan and 413 *plates* (many of which are ports.).

This copy is unique.

[**Burke, EDMUND**]. An appeal from the new to the old whigs, in consequence of some late discussions in parliament, relative to the reflections on the French revolution. London. 1791. 8°.

On the first front fly-leaf is a MS. account by I. T. Brown, of this book and its purchase "at the sale of the library and other effects of Lord Southampton, by Richard Dayrell Esq." — "This volume was bound and interleaved as it now appears, by the order of Lord Southampton for the use of his library." — The half-title-page bears the inscription, "Lord Southampton From the Author." — On the front of the second fly-leaf is a MS. copy of the author's letter to Lord Southampton, dated Margate July 31st 1791.

The volume also contains various MS. notes, printed slips, etc.

Burney, RICHARD. King Charles the Second, his most sacred majesty; presented to the right honourable houses of parliament in their next session, as the strength, honour and peace of the nations, in the jewells of his crown, and iustice of his people. Delivered in eight distinct sermons, in St. Mildreds Canterbury. London. [1660.] sm. 4°. *Port.* of Charles II. 1 vol., mor., gilt, with the arms of Charles II., stamped in gilt on the covers.

The title-page is printed in red and black.

Busnot, DOMINIQUE. The history of the reign of Muley Ismael, the present king of Morocco, Fez, Tafilet, Sous, &c. Of the revolt and tragical end of several of his sons, and of his wives. Of the horrid executions of many of his officers and subjects. Of his genius, policy, and arbitrary government. Of the cruel persecution of the Christian slaves in his dominions: with an account of three voyages to Miquenez and Ceuta, in order to ransom them. Translated from the original French now, first printed at Roan, this present year, 1714. London. 1715. 12°.

Pasted on the first fly-leaf is the autograph of "T. Gray," probably the poet.

Cæsar, CAIUS JULIUS. Commentarii tradotti di latino in volgar lingua: per Agostino Ortica. Con la tauola di nomi antiqui et moderni de la Gallia, Britannia, Germania, Italia, Grecia, Egypto, Asia, Africa, et Hispania Vltimamente con somma diliggētia reuisto, & corretto. Venetiis. 1539. sm. 8°. ff. (5), 242 [232]. *Port.*, map and *wdcts.* 1 vol., old cf., gilt "à la antique."

On the front cover is stamped in gilt letters, "A Evrials R"; on the back cover, "A Desilve | stris R"

The library has also a copy of the 1517 edition.

Cantius, Saint. Della vita, e morte de' santi martiri Cantio, Cantiano, e Cantianilla nobili Romani. Scritta da vn loro divoto. Roma. 1702. sm. 4°. ff. (6), pp. 89. *Vign.*

On the covers are stamped in gilt the arms of the Medici family. On the third front fly-leaf is written, "Di Antonino Capucci."

Caro, ANNIBALE. De le lettere familiari. [Edited by Giovanni Battista Caro.] Vol. I. Venetia, Aldo Manutio. 1574. sm. 4°. *Vign.* 1 vol., brown shp., tied with brown silk strings.

This book formerly belonged to Robert, earl of Essex, and bears his name and two lines in his autograph on the title-page.

Castro, JUAN DE (?). Poems by a slave in the island of Cuba, recently liberated; translated from the Spanish, by R. R. Madden. With the history of the early life of the negro poet, written by himself; to which are prefixed two pieces descriptive of Cuban slavery and the slave-traffic, by R. R. M. London. 1840. 8°.

"Life," pp. 53-92.

With the autograph of J. G. Whittier.

[**Catholio Churoh.**] L'office de la quinzaine de pasque, latin-françois, à l'usage de Rome et de Paris, pour la maison de Mgr. le duc d'Orléans, premier prince du sang. Paris. 1748. 12°. f. (1), pp. 599. *Vign.*

Also with an engraved title-page, reading:—"Semaine sainte pour la maison d'Orléans."

Stamped in gilt on both sides of the cover are the arms of Louis, duke of Orléans, born 1703, died 1752.

— L'office de la semaine sainte et de l'octave de pâque, en latin & en françois, à l'usage de Rome et de Paris avec l'explication des cérémonies de l'église. Nouvelle éd. Paris. 1703. 12°. *Front., vign.* and 3 *engrs.*

On the second front fly-leaf is written, "Ce livre a appartenu à Mademoiselle d'Orléans"; royal arms are stamped in gilt on both sides of the cover, and in each corner and on the back are the initials PP, surmounted by a crown.

— L'office de la semaine sainte, en latin et en françois, à l'usage de Rome et de Paris, imprimé par ordre de Madame Marie-Adélaïde de France. Paris. 1752. 8°. ff. (2), pp. xxxiv. f. (1), pp. 631. 1 vol., russia, gilt, edges gilt on marble; both sides of cover, and front and back fly-leaves lined with blue watered silk.

Stamped in gilt on both sides of the cover are the arms of the family of Marie Adélaïde of France (?).

— [Officium Beatæ Mariæ Virginis et quædam alia. — Hore deipare virginis Mariæ secundum vsum Romanum plerisq. figuris atq. chorea lethi circummanente nousiq. effigiebus adornate vt in septem psalmis penitentialibus. — *In fine: — Exarate quidem Parisiis arte industrii bibliographi Thielmani Kerver anno domini Mil. ccccc. xx. xxiiij mensis Novembris.*] sm. 8°. *Wdcts.* 1 vol, shp., rebaked; worm-eaten, and with clasps gone.

Contents: — Kalendarium. — Præparatio ad officium. — Officium Beatæ Mariæ Virginis. — Præparatione misse et oratio post eam dicenda. — Septem Psalmi poenitentiales cum litanis suis. — Officium defunctorum. — Officium de sancta cruce. — Officium de Spiritu Sancto. — Officium de conceptione Beatæ Mariæ Virginis (beginning only).

The title is taken from *Brunei's* "Manuel du libraire," tom. v., col. 1622, no. 195. In this copy several leaves, including the title-page, are lost at the beginning and a great many at the end of the book. Of the 47 very quaint wood engravings, four are lost. The book is printed in red and black ink, and all the pages have elaborate arabesque borders. The prefixed almanac extends from 1519 to 1538.

— [Officium Beatæ Mariæ Virginis et quædam alia. The book of hours of Queen Anne of Britany, chromo-lithographed by Lemercier from the original in the "Musée des souverains." Edited by L. Curmer. With an appendix.] 2 vol. [Paris. 1861.] 4°. 52 *chromo-lith. plates* and *vign.* 1 vol., red crushed levant, gilt, lined with cherry-colored watered silk, laid in red cloth case, lined with chamois skin. Bound by Deweerdt. — 1 vol., $\frac{1}{4}$ red mor., gilt, laid in case like above.

On tinted paper, with a reproduction of the gothic characters of the original MS. in black, gilt and colors, and also its richly illuminated borders. Stamped on both sides of the cover of the text are the royal arms of France, impaling those of Britany, and in the corners are the crowned initials L and A (L, standing for Louis XII. of France, Anne's second husband). The appendix is a translation of the text into French; it is printed on tinted paper in black and red, and ruled in red; it has the title:—"Le livre d'heures de la reine Anne de Bretagne traduit du latin et accompagné de notices inédites par M. l'abbé Delaunay." Appended is a "Catalogue des plantes représentées dans les encadrements du Livre d'heures d'Anne de Bretagne," by Joseph Decaisne.

— [Officium Beatæ Mariæ Virginis et quædam alia.] Œuvre de Jehan Foucquet Heures de Maistre Estienne Chevalier Texte restitué par M. l'abbé Delaunay. [Reproduction of the 40 miniatures of Jean Foucquet, belonging to M. Louis Brentano at Frankfort, and of other works of Fouc-

quet, with a text composed of the Office of the Holy Virgin, the Office of the Passion, prayers to the saints, and meditations. Edited by L. Curmer.] Paris. 1866. 4°. *Port. of Pius IX.* and 60 *chromo-lith. plates.* 1 vol., brown crushed levant, inlaid with red and gilt, rich tooling on sides, gilt on marble edges, lined with cherry-colored watered silk, laid in brown cloth case.

The text is printed and ruled in colors, and each page is surrounded by an illuminated chromo-lith. border. The chromo-lithography is done by Lemercier & Co.

— *The same.* Appendix [Edited by L. Curmer.] Paris. 1867. 4°. *Port. of Curmer's wife* (?), and of *Foucquet*, 42 *wdcts.* and 7 *chromo-lith. plates.* 1 vol., brown crushed levant, inlaid with red and gilt, rich tooling on sides, gilt on marble edges, lined with cherry-colored watered silk, laid in brown cloth case.

"Biographie," pp. 13-26.
The title-page is illustrated, and nearly all of the pages are ornamented on one side with a fanciful border. — The portrait of Foucquet is chromo-lithographed by M. Daumont from the original enamel. — The 42 woodcuts are copied from designs by Jost Ammon, illustrating the work of Hartmann Schopperus, entitled:—"De omnibus iliberalibus sive mechanicis artibus," etc. Inserted between pp. 102 and 103 is "Lit de Justice tenu à Vendôme en 1458 pour le jugement de Jean duc d'Alençon Chromolithographie de M. Prafont," which is pagged separately and printed on tinted paper, each page being surrounded by an illuminated border.

Catullus. Catvllvs Tibvllvs Propertivs cum C. Galli fragmentis quæ extant. Amsterodami, Joann. Ianssonium. 1640. 32°.

The title-page is engraved; it has the autograph of "Louis-Armand Saully, Avocat à Tours."

There is also a copy of this work in the general library.

— Opera, ex recensione Isaaci Vossii cum ejusdem notis ac observationibus. Ed. 2^a. Cum indicibus necessariis. Lugduni Batavorum. 1691. sm. 4°.

This copy formerly belonged to John Wilkes, of "Wilkes and liberty" fame, and has his autograph on the fly-leaf opposite the title-page, and his MS. notes on pp. 123, 125.

Chambure, AUGUSTE (LEPELLETIER) DE. Napoléon et ses contemporains. Suite de gravures représentant des traits d'héroïsme, de clémence, de générosité, de popularité, avec texte. Paris. 1824. 4°. *Large paper. Port. of Napoleon, vign.* and 45 *engrs.* (India proofs).

"With an autograph marginal annotation of the emperor upon a 'Rapport du ministère de la guerre,' Feb. 1808, inserted opposite the portrait; — also, pieces of wall-paper taken from Napoleon's bed-chamber at St. Helena.

[**Chastellux, FRANÇOIS JEAN, Marquis DE.**] Voyage de Newport à Philadelphie [sic], Albany, &c. Newport, de l'imprimerie royale de l'escadre. [1780.] sm. 4°. *Vign.*

At the top of the title-page is written, "À M^r Sumner souvenir de Paris Ed. Laboulaye"; under the title is another MS. note, reading:—"Cette relation qui n'a été tirée qu'à 24 exemplaires, dont 10 ou 12 seulement sont parvenus en Europe, et qui fut imprimée à bord de l'Escadre de Rhode Island est de M^r le Marquis de Chastellux, et a été reimprimée dans ses Voyages dans l'Amérique Septentrionale Paris 1788, 2 vol. in 8°. (2^{me} Ed^{on}). C'est une rareté bibliographique. Ed. Laboulaye."

This is the 1st edition of the author's work, entitled "Voyage dans l'Amérique Septentrionale." See *Quérard's* "La France litt." II. 147; and the "Avertissement de l'imprimeur" in the subsequently published edition of the book, Paris, 1786; also translated in the London edition, 1787.

Chevillard, JACQUES. Dictionnaire héraldique contenant les armes et blazons des princes, prélats, grands officiers de la couronne et de la maison du roy des officiers de l'épée, de la robe, et des finâces. Avec celles de plusieurs maisons et familles du royaume existantes. Paris. 1723. sm. 12°. *Engraved. Plates.*

Cicero, MARCUS TULLIUS. Opera quae supersunt omnia. Ad fidem optimarum editionum diligenter expressa. 20 vol. Glasgae. 1749, '48-49. sm. 12°.

The text of this edition is taken from Olivet.

Contents: — I.-III. Rhetoricorum vol. i.-iii. — IV.-X. Orationum vol. i.-vii. — XI.-XV. Philosophicorum vol. i.-v. — XVI.-XX. Epistolarum vol. i.-v.

This copy formerly belonged to Henry Thomas Buckle, and each volume contains his book-plate.

— **Epistolarum ad Atticum, ad Brutum, ad Quintum fratrem, libri XX.** nuper exacta recognitione. M.D.XXI. Latina interpretatio eorum, quae in ipsis epistolis graece scripta sunt. ubi multa & mutata, & addita sunt. [*Colophon:* —] Venetiis in aedibus Aldi, et Andreae socii. Mense Ianuario. M.D.XXI. sm. 8°. ff. (16), 331+. *Vign.*

See *Panzer*, VIII. 465, no. 1061; *Brunet*, II. 47; *Graesse*, I. 169.

— **Lettres à Atticus.** Avec des remarques. [Books III. and IV. Translated by the abbé N. H. Mongault.] *Lat. and Fr.* Paris. 1701. 12°. *Vign.*

This seems to be the first edition of Mongault's translation, which afterwards formed tom. III. of the edition of 1709 (tom. I., II. being St. Real's translation), and was still later republished as tom. II. of his own full translation of the whole sixteen books.

This copy was owned by Mme. de Pompadour and her arms are stamped in gilt on both sides of the cover. A memorandum to this effect is written in pencil on the second and third front fly-leaves. "De Beauchamp" is written in ink on the title-page.

— **Offices, in three books.** Turned out of Latin into English. By Sr. Ro. L'Estrange. 5th ed. corrected. To which is added a table. London. 1699. sm. 8°. *Front.*

On the front cover is a MS. account of the purchase of this book by Mr. Geo. Sumner at a second-hand book stall in St. Petersburg.

Claudianus, CLAUDIUS. Cl: Clavianus ex optimorum codicum fide. Amstelodami. 1639. sm. 24°.

The title-page is engraved. On the first fly leaf are the initials "T: G:", being the autograph of Thomas Gray, the poet, to whom the book formerly belonged. — See MS. note on the same page, signed "J. B."

— **Cl. Claudiani quae exstant.** Nic. Heinsivs recensuit ac notas addidit. Accedunt quaedam hac tenus non edita. [Edited by J. F. Gronovius.] Lugdvni Batavorum, ex officina Elseviriana. 1650. sm. 12°.

The title-page is engraved and is partially colored by hand; each page throughout the book is surrounded by a red-line border. The "Notae" have a special title-page and are paged separately.

— **Quae exstant varietate lectionis et perpetua adnotatione illustrata a Io. Matthia Gesnero.** Accedit index uberrimus 2 tom. (paged continuously). Lipsiae. 1759. 8°. ff. (6), pp. xlviii., 720+.

This copy was "bought at the sale of W. H. Prescott's books Oct. 24, 1871," and presented to Mr. Sumner by Geo. S. Hillard, Oct. 30, 1871. Attached to a fly-leaf is a MS. extract from *Dindin*, l. 471, referring to this book.

There is also a copy of this work in the general library.

Claroq, or Clerock, NIKOLAAS DE. Princelyck cabinet. Verthoonende 't leven afcomste ende afbeeldingen, der voornaemste vorste, princen, graven en heeren van Europa tegenwoordigregierende. Mitsgaders beschrijvinge van den staet, landen rijckdommen ende incomsten der selver. Delf. 1625. 4°. 55 *portrs.*

The title-page is engraved.

Cluver (Lat. Cluverius), PHILIPP. Introductionis in universam geographiam, tam veterem quam novam libri VI. Accessit P. Bertij Breviarium

orbis terrarum. Amstelodami, apud Elsevirios. 1677. sm. 8°. *Plate and table.*

The title-page is engraved. The library has also a copy of the 1661 edition.

Coleridge, SAMUEL TAYLOR. The friend: a series of essays, to aid in the formation of fixed principles in politics, morals, and religion, with literary amusements interspersed. A new ed. 3 vol. London. 1818. 8°.

The half-title-page of vol. I. bears the following inscription: — "To Hyman Hurwitz from S. T. Coleridge, with that regard and respect, which men who reverence themselves pay to those whom they know worthy to be revered. Highgate 27 April 1821." This copy has also a few MS. corrections.

Congnet, (LOUIS) HENRI. Marie honorée dans les classes, ou Mois de Marie, grec-latin, extrait des pères de l'église grecque et des saintes écritures. [3d ed.] Paris. 1837. 16°. *Large paper.* 3 *fronts.* and 7 *engrs.*

Pasted on one of the fly-leaves is a photograph of some member of the catholic clergy, perhaps the author. — Between the second and third frontispieces is an autograph letter of the author addressed to M. Darcol (P), and dated Soissons le 10 juin 1837, presenting him with the book. — On p. 1 is pasted a small photograph of one of Raphael's Madonnas, "La belle jardinière." — Between pp. 182 and 183 is inserted a proof-sheet of pp. 183 and 185 with MS. corrections.

[**Constantinus Cephalas.**] 'Αρθρολογία δευτέρα. N. P. N. D. sm. 16°. pp. 46.

Interleaved.

This was the school Greek exercise book of the poet John Dryden, used by him when a pupil at Westminster school. His name is scribbled several times on the first fly-leaf, and the book is interlined throughout with Latin translations of the Greek sentences. Pasted on the inside of the front cover is a portrait of Dryden. On the last fly-leaf at the end of the book is a note by Mr. Thos. Rodd, dated March 2, 1858, relating to the purchase of the book.

Conti, ARMAND DE BOURBON, Prince DE. Les devoirs des grands. Avec son testament. Paris. 1667. sm. 8°. *Vign.* 1 vol., cf., gilt, stamped in gothic compartments, with "fleurs-de-lis," and the letters "C. X."; laid in a purple roan case. Bound by Thouvenin.

On one side of the case are stamped the Bourbon crown, the letters "C. X.," and the sentence, "Philosophie de la Maison Royale de France"; on the other, the crown, letters, and the sentence, "Oeuvre Posthume du frère du grand Condé."

Cooper, ANTHONY ASHLEY, 3d Earl of Shaftesbury. Characteristicks of men, manners, opinions, times. 5th ed., corrected. With the addition of a letter concerning design. 3 vol. [London.] 1732. 8°. *Front., vigns., etc.*

Pasted on the first fly-leaf of vol. I. is a MS. letter from the 7th earl of Shaftesbury, presenting these volumes to Mr. Sumner.

Coornhert, or Koornhert, DIRK VOLKERTSZOON, called also VOLKERT (Lat. VOLCHARDUS). Recht ghebruyck ende misbruyck | van tijdlicke have. Amstelredam. 1610. sm. 4°. ff. (1), 25, (6). *Port.* and 25 *etched plates.*

Pasted on the first fly-leaf is a printed notice of the book.

Daneau (Lat. Danaeus), LAMBERT. Ad libellum ab anonymo quodam libertino recens editum, hoc titulo, De externa sev visibili Dei Ecclesia, vbi illa reperiri possit, & quænam vera sit, &c. seu potius, Aduersus externam & visibilem ecclesiam: Vtilis ac necessaria ad omnium verè piorum ac fidelium consolationem, fidelique confirmationem Responsio: in qua ex Dei verbo aperte & perspicue docetur, cui Ecclesiae sese, singuli verè filij Dei adiungere debeant. [Genevæ,] *Evstathium Vignon.* 1582. sm. 8°. ff. (8), pp. 95. *Vign.*

— **Ad novas Gvilielmi Genebrardi Doctoris Parisiensis calumnias, quibus tum orthodoxam**

Euangelicorum omnium de S. Trinitate doctrinam traducit: tum etiam horrendum Valentini Gentilis errorem tuetur, ac renouat. Responsio. Addita est Tabula vniuersas penè in hoc argumento hæreses complectens. Genevæ, *Eustathium Vignon*. 1578. sm. 8°. ff. (4), pp. 131. *Vign.*

This book is from the library of the historian, Jacques Auguste De Thou, and has his monogram stamped in gilt on the back, and his coat-of-arms, in gilt, on both covers.

[De Foe, DANIEL. Robinson Crusoe, translated into Arabic. Melita. 1835.] 16°. *Front.*, *vign.*, 5 full-page wdcts., etc.

On a fly-leaf are notes in pencil by Mr. George Sumner.

Desossarts, JEAN CHARLES. Traité de l'éducation corporelle des enfans en bas-âge, ou Réflexions-pratiques sur les moyens de procurer une meilleure constitution aux citoyens. 2^e éd., augmentée d'un Avertissement et d'un Supplément. Paris. [1799.] 8°.

With the book-plate of Sir Robert Al^x Chermiside. The arms of Napoleon I. are stamped in gilt on both sides of the cover.

Dodoens (*Lat. Dodonæus*), REMBERT. De sphaera, siue de astronomiæ et geographiæ principijs Cosmographica Isagoge. Antverpiæ. 1584. sm. 8°. pp. 109+. *Table, chart and diagrs.*

Du Cerceau, JEAN ANTOINE. Conjuraton de Nicolas Gabriin dit de Rienzi, tyran de Rome en MCCCXLVII. Ouvrage posthume. [Finished by Pierre Brumoy, and edited by J. F. de Courbeville.] Avec quelques nouvelles poésies du même auteur. Amsterdam. 1734. 12°.

"Éloge du r. p. Antoine Du Cerceau, tiré du Mercure de France, sept. 1730. pag. 1062."

The volume has the book-plate of Jean Joseph Thierry.

[Du Moulin (*Lat. Molinæus*), PIERRE, 1568-1638?] Tragicum theatrum actorum, et casuum tragicorum Londini publice celebratorum, quibus Hiberniæ proregi, episcopo cantuariensi, ac tandem regi ipsi, aliisque vita adempta, & ad anglicanam metamorphosin via est aperta. Amstelodami. 1649. sm. 8°. *Vign.*, 7 *ports. and plate.*

For the authorship see *Graesse*, VI. p. 185.

On a fly-leaf is a MS. note about the book.

Erasmus, DESIDERIUS. Antibar | barorum, Liber unus, què iuue | nis quidem adhuc lusit: cæterū | diu desideratum, demum re | pertum non iuuenis reco | gnouit, & uelut postlimi | nio studiosis restituit. | Ex quo Reliquorum, | qui Dijs propicijs propediem ac | cedent, Lector coniecturam Fa | cias licebit. Basileæ. 1520. sm. 4°.

The title-page, first page of preface, and first page of the work, have fanciful borders engraved by Holbein. There are also two initial letters and a tail-piece by him.

This book was presented to Mr. Sumner by Dr. Thies, Nov. 1860.

— In E | vangelivm | Lucæ Paraphrasis nunc pri | mum & nata | & ædita. [At end of "Praefatio": — Basileæ, decimo Ca | len. Septēbris Anno M. | D.XXIII.] sm. 8°. pp. 543. 1 vol., brown levant, gilt, richly tooled and inlaid; edges gilt on marble; sides lined with maroon levant, gilt, richly tooled; laid in a maroon morocco case lined with chamois skin.

See *Panser*, VI. 237, no. 478; *Le Long's* "Bibl. sacra," IV. p. 615; the date, however, in these references does not entirely correspond to the above.

The title-page is engraved. On the margins are 27 original pen-and-ink designs by Holbein, a MS. list of which is pasted on a fly-leaf. — The book formerly belonged to Dr. Ant. Danyau, and his book-plate is pasted on the first fly-leaf. — Pasted on another fly-leaf is a letter from the book-publisher, D. Jouaust, to M. George Danyau, certifying the genuineness of the designs; it is dated "Bâle, 26 août 1860," and is countersigned

"Falkeisen conservateur du Musé." When the book was rebound, the margins were trimmed so close that in some cases the designs and notes are mutilated.

Estienne (*Lat. Stephanus*), HENRI. Fragmenta poetarum veterum Latinorum, quorum opera non extant: Ennii, Accii, Lvcilii, Laberii, Pacuvii, Afranii, Naevii, Caecilii, aliorumque multorum: vndique, à Rob. Stephano summa diligentia olim congesta: nunc autem ab Henrico Stephano digesta, & priscarū quæ in illis sunt uocum expositione illustrata: additis etiā alicubi uersibus Græcis quos interpretatur. [Genevæ.] 1564. sm. 8°. pp. 433 [432]. *Vign.* 1 vol., red mor., gilt. Bound by Roger Payne.

The title-page is ruled in red. There are several MS. notes in pencil scattered through the book, on the margins, and on the last fly-leaf. It has the book-plate of Charles Henry Parry.

Euclides. Elementorum libri XV. Accessit XVI. de solidorum regularium comparatione. Omnes perspicuis demonstrationibus, accuratisq; scholijs illustrati. Avctore Christophoro Clavio. 2 vol. Romæ. 1574. 8°. 2 vol., mor., sides stamped with gilt, edges gilt "à la antique"; with clasps, only one perfect one remaining on each.

The second volume has the title: — "Postiores libri sex a X. ad XV." etc.

The title-page in each volume is surrounded by an ornamental border. On the back of the first one is a MS. note in Italian. On the first fly-leaf in the second volume is written, "Bardi". On both sides of the covers of both volumes is stamped in gilt the coat-of-arms of some cardinal.

Faerno, or Faerna, GABRIELE. Fabulæ centum. Ex antiquis auctoribus delectæ, carminibus explicatæ, novisque ære incisis iconibus adornatæ. Quid accesserit præterea patet ex indice editoris londinensis præfationi subjecto. Ed. nova. *Lat. and Fr.* Londini. 1743. 4°. *Large paper. Front. and 100 engrs.* 1 vol., "richly bound in old blue mor., inlaid with red and yellow mor., and tooled to a rich pattern, the inside of the covers 'double' with calf, and richly tooled gilt edges."

"This was the finest specimen of old English binding in the library of the late Marquis of Hastings." — See printed slip on fly-leaf.

Also with the title: — "Cent fables choisies des anciens auteurs, mises en vers latins par Gabriel Faerne, et traduites par Mr. Perrault," etc.

Federalist (The): a collection of essays, written in favour of the new constitution, as agreed upon by the federal convention, September 17, 1787. 2 vol. New-York. 1788. 12°.

This was John Adams's copy, and contains his autograph. His initials are stamped in gilt on the covers. He presented it to Thomas Brand Hollis, from whom it passed, successively, to Dr. Disney, Henry Steel, John Atkinson, Joseph Parker, and Charles Sumner. — See the fly-leaves of both volumes. (On the title-page of vol. II. Mr. Adams has written "By Mr. Hamilton.")

[Fichet, ALEXANDRE]. Chorvs poetarvm classicorvm dvplex; sacrorvm et profanorvm. Lustratus illustratus adjectis poetis octodecim cum sacris tum prophanis, Manilio, Columella, Boëtio, Sereno Samonico, Rhemmio, Mario Victore, S. Paulino, Sedulio, Aratore, Prospero Aquitanico, Ennodio, Idylliis, Cypriani, Lactantij, Hilarij, Dracontij fragmentisque Senecæ & Petronij. Auctus Musæo rhetorico & poetico in omnes poetas kalendario item pontificio & rustico Romanorum cum notis, in Fastos Ouid. Et membranulis aliquot. Accessit postremum index ritualis, moralis philologicus; ad omnes disciplinas aptissimus. 2 pt. Lvgdvni. 1616; '15. 8°. *Vign.*

Pt. II. is imperfect: — col. 129-136, 153-160 are wanting, 139 is torn.

The back and both sides of the book are covered with fleur-de-lis stamped in gilt, and in the centre of each cover are royal arms.

[Flores, JUAN DE]. *Historia di Avrelio et Isabella, nella quale si disputa: chi piu dia occasione di peccare, ho l'huomo alla donna, ho la donna a l'huomo, di lingua Spagnvola in Italiana tradotta da M. Lelio Alephilo.* Venetia, *appresso Ferrarij.* 1543. sm. 8°. ff. 38+. *Vign.* 1 vol., cf., gilt, richly tooled in Grolier style.

With the autograph of T. Hepburn on the title-page.

[France]. *État des troupes, et des états-majors des places.* Année 1761. [Paris? 1761.] sm. 12°.

This is a dedication copy to Mme. de Pompadour, and her arms are stamped in gilt on both sides of the cover. An original colored design by Charles Eisen serves for a title-page. There are several MS. additions; and a printed notice is pasted on the first fly-leaf.

Fuller, THOMAS. *Good thoughts in bad times and other papers.* Boston. 1863. 16°. *Large paper.* Port.

"Thirty copies printed." Presented to Mr. Sumner by Wm. F. Fowle, of Boston, "as a specimen of Mathew's binding." Attached to the second fly-leaf is a letter from Mr. Fowle.

Galeotti, MARTIO. [Liber de homine. — Fol. 1^a: GALEOTTI. MARTII. NARNIENSIS. AD | R. D. ARCHIEPISCOPVM. STRIGONIE | NSEM. IN. LIBRVM. DE. HOMINE. EPI- | stola | — Fol. 2^a tit.: GALEOTTI. MARTII. NARNIENSIS | LIB. DE HOMINE INCHOAT- | PRIMVS. | — Fol. 37^b, line 31: sine aliquo uela- | mēto scribe ut i supioribus fecimus | (e) Xteriorē | hoīem libro sapiore. R. P. satis sup | q3 descrip- | simus secūdū ani nri ppositū nūc id | — Fol. 38^a, | line 5: memus exordium. | (s) Alua cōtinet cerebrū | quod in tres ptes distin | guit, etc. — In fine: Fol. 68^b, line 30: & pignus Amoris. | GALEOTTI. MARTII. NARNIENSIS. SE | CVNDVS. ET. VLTIMVS de Homiē Liber Explicit] N. P. N. D. 16°. ff. (68). 32 lines. R. L.

There are no signature-marks or catch-words. The spaces for Greek citations are left blank, to be filled in by hand, and so are many of the initial letters. The date must be about 1470. See *Brunet* and *Graesse*, whose descriptions are not entirely accurate. *Hain* does not mention this edition. It is probably one of the crudest specimens of early typography. This copy has many MS. marginal glosses.

Gastaldo, or Castaldi, JACOPO. *La vniversale descrizione del mondo.* Venetia, *per Matthio Pagano, in Eressaria.* 1062 [1562]. sm. 8°. ff. (12). *Vign., diagr., etc.*

Gellius, AULUS. [Beginning: —] *Avli Gellii Noctivm Atticarvm libri vndeviginti.* [Edited by Joannes Baptista Egnatius. Venetiis]. *Aldus.* [1515]. 8°. ff. (31), 289, (51). *Vign.*

This is the first edition of 1515. See *Rénouard's* "Annales de l'imprimerie des Aldes," etc. I. 172, no. 10. The library has also a copy of the second edition of 1515.

This copy belonged to Philipp Melancthon, and contains his autograph notes. The inside of the front cover and the three front fly-leaves are also filled with his handwriting. A printed notice is pasted on the inside of the front cover. The cover is stamped with the date "1538."

Gemma Frisius (*Dutch de Fries*), REINERUS. *Les principes d'astronomie & Cosmographie: avec l'usage du Globe. Le tout composé en Latin, & mis en langage François par M. Claude de Boissière. Plus, est adiousté l'usage de l'anneau Astronomic, par ledict Gemma Frizon: Et l'exposition de la Mappemonde, composée par ledict de Boissière.* Paris, *Causselat.* 1557. sm. 8°. ff. 128. *Vign., diagrs. and wdcts.*

Geener, KONRAD. *Historia plantarvm et vires ex Dioscoride, Pavlo Ægineta, Theophrasto, Plinio, & recetioribus Græcis, iuxta elementorū ordinē.*

Adiecta ad marginē nomenclatura, qua singulas herbas officinæ, herbarij, & vulgus Gallicum efferre solent. Parisiis. 1541. sm. 8°. ff. (8), pp. 261. *Vign.*

On the title-page is written, "Iv. T.," and on each side of the cover is stamped in gilt, a dragon (?)

Glaeser, AUGUST. *Das Lincoln-monument. — Eine rede des senator Charles Sumner. Nebst einer lebensskizze Sumner's und der in seiner rede erwähnten künstler. Zugleich ein beitrage zur kunstgeschichte Amerika's.* Frankfurt a/M. 1868. 8°. pp. 77. 1 vol., red mor.; the front cover being inlaid with white and blue mor. panels, and having a gilt eagle surmounted by 13 gilt stars in the centre.

"Lebensskizze Sumner's," pp. 60-70.

Pasted between the second fly-leaf and the title-page is an autograph letter of the author, presenting the book to Mr. Sumner.

Glaresanus, HENRICUS (LORITUS, *Germ.* LORITZ), *called.* *De Geographia Liber unus ab ipso autore iam tertio recognitus.* Venetiis. [1549.] sm. 8°. ff. 39. *Vign. and diagrs.*

On the inside of the front cover are written the names of two successive owners of the book; and attached is a note concerning the name of the author. On the title-page is written, "Bibliotheca Carmelium Bononiz." On the inside of the back cover are two more MS. notes.

Goedaert, JOHANNES. *Metamorphosis naturalis, ofte Historische beschryvinghe van den oirspronk, aerd, eygenschapen ende vreedem veranderinghen der wormen, rupsen, etc.* 2 dele. Middelburgh. [1662-67?] sm. 8°. Port. and 105 col. plates. 2 dele in 1 vol., red mor., gilt, richly tooled, and inlaid; edges gilt "à la antique," figures colored by hand?

Each pt. has also an engraved title-page with an ornamental border colored by hand?

Goutlière, Gouthier, Guthier, or Guthières (*Lat.* *Gutherius*), JACQUES. *De ivre manivm, sev de ritv, more, et legibus prisci fvernis, libri iii.* [To which is appended his Choartis maior, etc.] Parisiis. 1615. 4°. ff. (7), pp. 545, ff. (12), pp. 39. *Vign. and wdcts.*

This copy formerly belonged to Rubens, and at the bottom of the title-page, in his autograph, is written, "Ex Libris Pet. Pavli Rybenii"; opposite the title-page is pasted his portrait.

Grifoli (*Lat.* *Griffolus, or Grifolus*), JACOPO. *M. Tvllii Ciceronis defensiones contra Celii Calpagnini disquisitiones in eius Officia. Lutetia Parisiorum, Nicolaum Disitem.* [1548.] sm. 8°. ff. 72. *Vign.* 1 vol., green crushed levant, gilt. Bd. by Capé.

On the title-page is written, "Gremond" (?) — On both sides of the cover is stamped, in gilt, the printer's mark of the Aldi. — This volume is from the library of the marquis de Morante, and his book-plate, stamped in gilt on green morocco, is pasted on the inside of the front cover. See MORANTE, J. G. DE LA C., *Marquis DE.* Catalogue, etc. I. 47, no. 234.

Gualterus de Castellione (*Fr.* *Gautier de Châtillon, or de Lille*), PHILIPPUS. *Alexandreidos, libri decem.* [Edited by Oswald von Eck; with notes by Sebastian Linck. Ingolstadtii, *cxvdebat Alexander Weissenhorn.*] 1541. sm. 8°. ff. (8), cxvi., (3). *Vign. and wdct.*

"Vita," ff. (5, 6).

See *Brunet's* "Manuel du libraire," II. 1470.

On the first fly-leaf is pasted a printed notice of a Venetian copy, 1521. The second fly-leaf bears the autograph of "I. Mitford, 1805," and is covered with his MS. notes. On the third fly-leaf are pasted tracings of the title-page and three lines from f. xlii. of a copy of this work in the library of Lord Spencer at Althorp — At the bottom of the title-page is written, "Ex libris M. Z. Boxhornii." Throughout the book there are many MS. marginal notes.

Guarini, (GIOVANNI) BATTISTA. Il pastor fido. Tragicomedia pastorale. Aggiuntoui di nouo le Rime dello stesso autore. Venetia. 1608. sm. 24°. 1 vol., red crushed levant, gilt.

The title-page is engraved; the "Rime" has a special title-page. — On the first fly-leaf is a printed notice of the book; on the third fly-leaf is the autograph of W. Congreve.

— *The same.* Parigi. 1766. 12°. 6 engrav. 1 vol., red crushed levant, gilt. Bound by Derome.

The title-page is engraved. — This edition does not contain the "Rime."

On the first fly-leaf is written, "L'aisé par Mad^e Dailly à Mad^e de Chalaudray. (—?) 8^e 1787."

Guevara, ANTONIO DE, Bp. of Guadix and Mondoñedo. L'orloge des Princes, œuvre de tresexcellente & admirable doctrine, pour les graues sentences, & rares hystoires, qui y sont contenues, composé en Espagnol. Traduit en Francoys [by René Berthault, Sieur de la Grise]. Paris, *Arnoul d'Angeli*. 1550. sm. 8°. ff. (12), 423. *Vign.* 1 vol., cf., gilt, elaborately tooled and inlaid.

On the front cover is stamped "R B 1555," on the back cover "R B," simply.

This volume is from the library of the Marquis de Morante and his book-plate, stamped in gilt on brown morocco, is pasted on the first fly-leaf. — See MORANTZ, J. G. DE LA C., *Marquis* p. Catalogue, etc. I. 59, no. 401, where this translation is incorrectly ascribed to Nicolas de Herberary.

Hall, T. The queen's royal cookery: or, Expert and ready way for the dressing of all sorts of flesh. And making all sorts of pickles. Also making variety of pies, &c. With the art of preserving and candying of fruits and flowers. 3d ed. London. 1719. sm. 12°. *Front.*

On the inside of both the front and back covers are written two other recipes; on the fly-leaf at the end is written, "Curtis Tits her book 1749."

[Helinasus, DANIEL]. Lavs asini tertia parte auctor: cum alijs festivis opusculis. Lvgd. Batavorvm, ex officina Elseviriana. 1629. 24°. *Wdct.*

The title-page is engraved.

See Brunet, III. 84.

Contents: — Lavs asini. — Cras credo, hodie nihil. — An, et qualis viro literato ait dvocanda vxor. — Lavs pedicvli. — De poetarvm ineptiis, et saecvli vitio. — Argumentvm batrachomyomachiae. — Epistola, de commendatione graeculorum quorundam: cum alijs aliquot.

Herodotus. [Historiarum libri IX. interprete Laurentio Valla. Fol. 1^a tit.: — Herodoti Halicarnasei Historiarum Liber Primus. | (h) ERODOTI Halicarnasei expli | catio haec est: ut neq3 ea quae gesta sūt, ex | etc. — Fol. 255^b: — Herodoti Halicarnasei patris historiae traductio e graeco in | latinū habita p virū eruditissimū Laurētū Valēsē sīgūlarem | nostris tēporibus ciuē rōanū sub Nicolao. V. sūmo pōtifice. | Venetiis Ipessū ē hoc opus p Iacobū Rubēū natione Galli | cu. Anno dñi. M.cccc.lxxiii. Nicolao Marcello duce Ven. | — Fol. 256^a: — Integerrimo Atq3 Optimo Patricio Nicolao Donato Bene | dictus Brognolus Salutem Plurimam dicit. — Fol. 259, line 15: — id ita | facies interdum ut Benedicti tui meminisse non dedigneris. | Vale.] sm. f. (1), 259. 35 lines. R. L.

See Hain, no. 8469. — Many initial letters and capitals are ornamented by hand with red ink. The folios are numbered at the top in red ink, but owing to the omission of 110, the subsequent numbering is wrong, and the book appears to have 260 ff. A preliminary leaf, not noticed by Hain and perhaps peculiar to this copy, contains a MS. table of contents of the nine books. There are frequent marginal glosses in red ink; and all this MS. appears to be by the same hand.

Heylyn, or Heylyn, PETER. The history of the Sabbath. In two bookes. 2d ed., revised. London. 1636. sm. 4°. *Vign.*

Each book has a special title-page and is paged separately. — On the first fly-leaf is written, "I Hamilton Tate;" on the

back of the same leaf is written, "To the right ^{hable} and his very good Lord Thomas Viscount Wentworth L^d Deputie of his maj^{ties} Realme of Ireland: the Author^e Pet. Heylyn present's himselfe, and his performance in this Argument." — At the top of the title-page is written, "Francis Butler." — Stamped in gilt on both sides of the cover are the royal arms of Great Britain.

[Hobbes, THOMAS]. Vita. [Vitae Hobbianae auctarium. — Vita carmine expressa. Auctore seipso.] Carolopolis [London]. 1681. sm. 8°. *Port.*

This volume once belonged to Dr. Samuel Parr; two lines in Latin and Greek in his autograph are written on the first fly-leaf; and a printed label bearing his name is pasted on the inside of the front cover. At the top of this cover is written, "Tho: Martin," and in another hand, "Exchange'd wth Mr. Rob^t Martyn Esq^r, for Howell's Letters;" opposite, on the first fly-leaf in the same hand: "I have an edition of this book in 12^{mo} 4th I think was printed abroad." The book has many MS. pencil notes in still another hand.

Holbein, HANS, the younger. Le triomphe de la mort gravé d'après les dessins originaux de Holbein par Chrétien de Méchel. [Paris.] 1780. sm. sq. 16°. ff. (50). 47 plates. 1 vol., red crushed levant, gilt. Bound by Capé.

The title-page is printed in red and black ink.

Homerus. [Opera omnia, cum vita ejus ex Herodoto, Dione, et Plutarcho. Tomus II.] 'Οδυσσεΐα. Βατραχιομωμαχία. ἑμvol. λβ. [Venetiis in ædibus Aldi II. Cal. Novr. 1504.] sm. 8°. ff. (250).

See Graesse, III. 326. — The date of this edition is found at the end of the preface to the Odyssey. A second and third edition, closely resembling this, were published by Aldus in 1517 and 1524. Some previous owner of this copy, misled by the close resemblance, has written "Venetiis Aldus 1524" on the last folio, and the binder has accordingly stamped "Aldus MDXXIV" on the back. The edition of 1524 is in every way inferior to this.

On the title-page is stamped in red ink "Sum Michaelis Eo-celluberi," and below this is written "Collegii Societ. Jesu In-sulis 1757." At the bottom is added "donum P. Petri De-clercq." There are many marginal notes and fragments of an interlinear MS. Latin translation in red ink.

— [Half-title: —] Homeri Ilias et Odyssea. 2 tom. [Londini, Pichering. 1831.] 32°. *Port.* and 2 *vign.* 2 vol., red mor., gilt tops. Bound by Belz Niedree.

Each tom. has also a special full title-page.

Contents: — I. 'Ιλιάς. — II. 'Οδυσσεΐα.

— Ilias graece et latine, juxta editionem novissimam atque accuratissimam Samuelis Clarke expressa, in usum studiosae juventutis. Amstelaedami. 1734. sm. 12°. ff. (2), pp. 619+. *Front.* and *vign.*

On the second fly-leaf is written, "T. B. Adams — Bo^d at the Hague 1795 — Chas. Sumner bot at auction 25th Augst. 1832."

— The Iliad; translated from the Greek, by Alexander Pope. 2 vol. Baltimore. 1819. 24°. *Front.*

Vol. II. has also an engraved title-page.

"Prize awarded to Charles Sumner for a translation from Sallust & from Ovid at the pub. Lat. school." See MS. note on the first fly-leaf of each vol., signed "B. A. Gould, master," and dated 1824.

On the second fly-leaf of vol. I. are MS. notes by George Sumner, and attached is a sprig taken by him from the plain between the Simois and Scamander, July 19, 1839; the back fly-leaves are filled with additional notes written on the plains of Troy; more notes are on the front fly-leaves of vol. II., and on p. 242, to which latter is attached a flower from the mound of Patroclus.

— Hymns; the Batrachomyomachia; and two original poetical hymns. By George Chapman. With an introductory preface. By S. W. Singer. Chiswick. 1818. 12°. *Port.* of Chapman. 1 vol., cf. Bound by C. Lewis.

The name "J Mitford. 1824" is written on a front fly-leaf, with other MS. notes, more of which in the same handwriting are added on the first fly-leaf at the end of the book. — A printed notice of two works by Chapman is pasted on the first front fly-leaf.

[**Hooke, JACOB**]. *Bibliotheca bernardiana*: or, A catalogue of the library of the late Charles Bernard. Containing a curious collection of the best authors in physick, history, philology, antiquities, &c. With several MSS. ancient and modern which will begin to be sold by auction the 22d of March, 1710-11. [London. 1711.] sm. 12°.

Interleaved and priced.

This copy belonged to the poet John Gay, and has his autograph on the title-page. — A printed notice is pasted on the inside of the front cover.

Horapolo. *De sacris Ægyptiorum notis, Ægyptiacè expressis libri duo, iconibus illustrati, & aucti.* Nunc primum in Latinum ac Gallicum sermonem conuersi. Parisiis. 1574. sm. 8°. ff. (8), 107. *Wdts.* 1 vol., purple mor., gilt on marble edges. Bound by H. Duru.

The title-page is illustrated.

This volume is from the library of the marquis de Morante and his book-plate, stamped in gilt on green paper, is pasted on the inside of the first fly-leaf. — See **MORANTE, J. G. DE LA C.**, *Marquis DE*. Catalogue, etc. I. 347, no. 1905.

Horatius Flaccus, QUINTUS. *Quintus Horatius Flaccus. Accedunt nunc Danielis Heinsii. De satyra horatiana libri duo, in quibus totum poetæ institutum & genius expenditur. Cum ejusdem in omnia poetæ animaduersionibus, longe auctioribus.* 3 pt. Lvgd. Batav., ex officina Elseviriana. 1629. sm. 16°.

"Vita e vetustissimo codice descripta," ff. (11-13).

See **BRANET, III.** 317.

The title-page is engraved; each part has a special title-page, the first having the date 1628 in the imprint.

Imperfect: — parts of pp. 126-129 are illegible.

— *Opera.* 2 vol. Londini, *Iohannes Pine.* 1733-37. 8°. 2 fronts. and engrav.

"The entire text of this edition is engraved throughout, and has both the lists of subscribers." — See printed slip on fly-leaf.

— *Quintus Horatius Flaccus ad lectiones probationes diligenter emendatus, et interpunctione nova saepius illustratus.* Glasguæ. 1744. sm. 8°.

See **DIBDIEN'S** "Greek & Latin classics," II. 108.

This volume formerly belonged to Gov. Gore, after whose death it was presented by his widow to Judge Story; after Judge Story's death it was presented by his widow to Mr. Sumner. — See MS. notes by Mr. Sumner and Judge Story on the first and second fly-leaves.

— *Quintus Horatius Flaccus.* Londini, *Pickering.* 1824. 48°. *Front.* 1 vol., green crushed levant, gilt, covers lined with red mor., gilt, richly tooled and first and last fly-leaves lined with red, watered silk.

Also with an engraved title-page, bearing the date 1826 in the imprint.

This volume is from the library of the marquis de Morante, and has his monogram surmounted by a coronet stamped in gilt in the centre of each side of the cover. — See **MORANTE, J. G. DE LA C.**, *Marquis DE*. Catalogue, etc. I. 148, no. 807; — see also **DIBDIEN'S** "Greek & Latin classics," II. 122.

Howard, GEORGE WILLIAM FREDERICK, 7th Earl of Carlisle, Viscount Morpeth. *Lines on Yorkshire.* Written in 1832. [London. 1865.] f°. ff. (7). *Port.* and 9 engrav.

"Printed for private circulation."

One side only of each leaf is printed, on thick paper, in old English text, black and red letters, with gilt border, and a fanciful illuminated letter at the beginning. On one of the front fly-leaves is the presentation-autograph of Caroline G. Lascelles. On another fly-leaf Mr. Sumner has pasted a copy of two stanzas of poetry written by Lord Morpeth, in 1841.

Howard, HENRY, Earl of Surrey. *Poems.* Printed from a correct copy. With the poems of Sir Thomas Wiat, and others his famous contemporaries. To which are added some memoirs of his

life and writings. [Edited by George Jewell.] London. 1717. 8°.

"Memoirs," pp. vii.-xvi.

Pasted on the inside of the front cover is the book-plate of Horatio Walpole. — On the third fly-leaf is a MS. copy of an epitaph in Lambeth church written by the earl of Surrey "on one Clere."

[**Huttich, JOHANN**]. *Novvs orbis regionvm ac insularvm veteribvs incognitarvm una cum tabula cosmographica, & aliquot alijs consimilibus argumenti libellis, quorum omnium catalogus sequenti patebit pagina.* His accessit copiosus rerum memorabilium index. [With a preface by Simon Grynaeus.] Adiecta est hvic postremæ editioni Navigatio Caroli Cæsaris auspicio in comitijs Augustanis instituta. Basileæ. 1537. f°. ff. (24), pp. 602. *Wdts.*

With the autograph of Thomas Gray, the poet, and many MS. notes in his handwriting.

Jaquinot, DOMINIQUE. *L'usage de l'astrolabe, avec vn petit traicté de la Sphere. Plus est adouste vne Amplification de l'usage de l'Astrolabe, par Iacques Bassentin.* 2^e éd. Paris, *Cauellat.* 1558. sm. 8°. ff. (8), 101 pp. *Vign., diagrs.* and *wdts.*

The vignette has been colored by hand. — "Antonius du Rachinoy," "Ex libris Lagrene" and a Latin motto are written on the title-page.

Kalendarium gregorianum perpetuum. Romæ. 1582. sm. 8°. ff. (36). *Vign.*

Printed in red and black ink.

Katholisches betbuch, von einem Böhmen. 3^e aufl. Prag und Wien. 1782. sm. 18°. *Vign.* 1 vol., silver fret-work, with tortoise-shell side panels and silver clasps.

[**Lacroix, ÉMERIC DE.** *Le nouveau cynée: ou Discours des occasions et moyens d'établir une paix générale et la liberté du commerce par tout le monde.* Paris. 1623.] sm. 8°.

Imperfect: — the title-page is wanting; the title is supplied from *Barbier's* "Dict. des anon.," II. 446, no. 12459, and from "Nouvelle biographie."

Several MS. notes relating to the book are written on the inside of the front cover and on the back fly-leaves.

Lacroix, PAUL. *Les arts au moyen âge et à l'époque de la renaissance. Ouvrage illustré par F. Kellerhoven.* 2^e éd., revue. Paris. 1869. 1. 8°. *Chromo-lith. front., 18 chromo-lith. plates, 32 full-page wdts., fac-sims., etc.*

— *Mœurs, usages et costumes au moyen âge et à l'époque de la renaissance. Ouvrage illustré par F. Kellerhoven.* 3^e éd. Paris. 1873. 1. 8°. ff. (2), pp. iv., 603. *Chromo-lith. front., 14 chromo-lith. plates, 24 full-page wdts., etc.*

— *Vie militaire et religieuse au moyen âge et à l'époque de la renaissance. Ouvrage illustré par F. Kellerhoven, Régamey et L. Allard.* Paris. 1873. 1. 8°. *Chromo-lith. front., 13 chromo-lith. plates, 33 full-page wdts., 2 fac-sims., etc.*

Lactantius, LUCIUS CÆLIUS (or CÆCILIUS) FIRMIANUS. [Fol. 1^a: — *Iohannis Andree Episcopi Alerieñ ad Paulum II. Venetum Pont. Max. Epistola. Desinunt: Rome anno natalis dominici. M.CCCC.LXX. Pontificatus tui floridissimi Anno sexto.* — Fol. 13^a tit.: — *Lactantii Firmiani institutionū divinaB adversū gentes Libri primi prefatio. ad Imperatorem Constantinum.* — *In fine* Fol. 223^a: — *Aspicis illustris lector, etc. Cōradus suueynheim: Arnoldus pānartzq3 magistri | Rome impresserunt talia multa simul. | Petrus cum fratre Francisco Maximus ambo | Huic operi aptatam contribuere domum.* | M.CCCC.LXX.] f°. ff. (223), 38 lines.

G. L. 1 vol., vellum, the back strengthened with calf straps ornamented with kid.

See *Hain*, no. 9808.

This is the third impression of the "Editio princeps," of Lactantius. — The front of the title-leaf (fol. 13, according to *Hain*) is magnificently illuminated. — There are many MS. marginal notes in red ink.

Lafont, JOSEPH DE. Théâtre. Nouvelle éd., revue & corrigée. Amsterdam. 1746. 12°.

Contents: — Danaë ou Jupiter Crispin. — Le naufrage ou La pompe funèbre de Crispin. — L'amour vengé. — Les trois frères rivaux.

Stamped in gilt on both covers are the arms of Louis XVIII. of France.

[Lallemant, or Lalemant, PIERRE]. Panegyrique funebre de Messire Pomponne de Bellièvre, premier president au parlement. Prononcé à l'hostel-Dieu de Paris le 17. aulil 1657, au service solennel fait par l'ordre de Messieurs les administrateurs. Par vn chanoine regulier de la congregation de France. Paris, *Cramoisy*. 1657. 8°. ff.(4), pp 29+- *Vign.*

With marginal pencillings.

Pasted on the second fly-leaf is a leaf bearing a quotation in Mr. Sumner's autograph from Charles Perrault's "Hommes illustres," tom. II. p. 54, concerning the work of Pomponne de Bellièvre.

[La Rochehoucauld, FRANÇOIS, 6th Duke DE, Prince de Marsillac]. Réflexions ou Sentences et maximes morales. 3^e éd., revue, corrigée & augmentée. Paris. 1671. 12°. 1 vol., red crushed levant, gilt. Bound by Trautz-Bauzonnet.

[La Roche-Guilhem, Mlle. — DE]. Journal amoureux d'Espagne. 4 pt. (paged continuously). Paris. 1675. sm. 12°. 1 vol., blue crushed levant, gilt on marble edges. Bound by Capé.

Stamped in gilt in each corner of both sides of the cover and on the back is the monogram LVP (?) surmounted by the coronet of a viscount of France.

Laspeyres, L. L'académie des philosophes svr l'amovr. [1^e pt.] Paris. 1642. 8°. *Vign.*

With the autograph of Montesquieu on the title-page.

Lavinheta, BERNHARD. De incarnatõe xvbi | ¶ Beatissimo patri dño nro Leoni diuina puidencia | pape decimo Bernard^o Lauinheta natiõe Vasco pa- | tria Bearnensis. post pedũ oscula beato4 c ois sancte | obedientie deditõnem. S. D. Coloniz. 1516. sm. 4°. ff. 51. *G. L. Wdct.*

[Le Blanc, JEAN BERNARD, the Abbé]. Élégies de Mr. L^e B^e C. Avec un discours sur ce genre de poesie, et quelques autres piéces du mesme auteur. Paris. 1731. sm. 8°.

This is the dedication copy to Louis de Bourbon-Condé, Count de Clermont, and on both covers are stamped in gilt the royal arms.

[Lefort de la Morinière, ADRIEN CLAUDE] Choix de poésies morales et chrétiennes, depuis Malherbe, jusqu'aux poètes de nos jours. Dédié à Monseigneur le duc d'Orléans, premier prince du sang. Tom. I. Paris. 1739. 8°. *Vign.* 1 vol., red mor., gilt on marble edges, covers lined with figured gilt paper.

This volume formerly belonged to Jean Baptiste Colbert, Marquis de Torcy, and his arms are stamped in gilt on both sides of the cover.

Le Maire, JEAN. Les Illustrations | de Gaule et singularitez de Troye. | Auec les deux epistres de Lamant Vert. | Le second liure des | Illustrations de Gaule et des singularitez | de Troye. | Le tiers liure des il | lustratiõs de Gaule : intitule de Frâce orié | talle et occidentale. | Le traicte de la diffe | rence des Scismes et des Concilles de legli | se. Et de la preeminence et vtilite des con | cilles

de la saicte eglise Gallicane. Auec la | vraye histoire et non fabuleuse du prince | Syach ysmail dit Sophy. Et le saucon | duy que le Souldan ballie aux Francoys | pour frequenter en la terre sainte. | Lepistre du roy a Hector de Troye et au | cunes autres oeures dignes de veoir. [Auec le blason des armes de venitiës.] 4 pt. [Paris, *Francoys Regnault*. 1528.] 4°. ff. (6), 65, 46, (6), 41, (30). *G. L. Wdct.*

Each part (except the first) has a special, engraved title-page. The general title-page is engraved and printed in black and red letters. — The date is found at the end of the first and third parts and on the title-page of the fourth part. — This copy differs from the edition of Paris, 1528, noticed by *Brunet* and *Graesse*, by being in 4 pt. only, wanting the "epistre du roy a Hector" mentioned on the title-page.

Leone, GIOVANNI, Africano. Africæ descriptio IX. lib. absoluta. 2 pt. (paged continuously). Lugd. Batav., *apud Elsevir*. 1632. 24°. pp. 800+- *Vigns.*

The title-page of the first part is engraved.

[Leti, GREGORIO]. Le nepotisme de Rome. Ou Relation des raisons qui portent les papes à aggrandir leurs neueux. Du bien & du mal qu'ils ont causé à l'église depuis Sixte IV. iusqu'à maintenant. Traduction de l'italien. 2 pt. N. P. 1669. 12°. 1 vol., red crushed levant, gilt, on marble edges. Bound by Duru in 1859.

Pasted on the inside of the front cover is the book-plate, stamped in gilt on red morocco, of P. Desq.

Mr. Sumner presented an Italian edition of this book, Amsterdam, 1667, to the public library of Boston (shelf-mark 5469-25), in which was inserted a letter, dated March 11, 1871, urging Mr. Sumner to use citations from it in support of an attack upon President Grant for nepotism. See Bulletin, Boston public library, January, 1874, p. 208.

[—] ? Le pytanisme de Rome, ou Le conclauve général des pytains de cette cour, pour l'élection d'un nouuean [sic] pontife. Traduction libre de l'italien. Cologne. N. D. sm. 12°. ff. (4), pp. 132. *Vign.* 1 vol., blue crushed levant, gilt on marble edges. Bound by H. Duru.

Elsevir ed. — See MS. note on the front fly-leaf.

See *Brunet*, IV. 987.

Longus Sophista. Les amours pastorales de Daphnis et Chloé. [Translated by Jacques Amyot; with notes by Antoine Lancelot. Paris.] 1745. sm. 8°. *Large paper. Vign.* and 29 *engrs.* 1 vol., red crushed levant, gilt. Bound by Derome?

The title-page is printed in black and red ink. Also with an engraved title-page, bearing the date 1718. For a full account of this edition see *Brunet*, III. 1158.

Lucretius, MARCUS ANNÆUS. Lvcavvs [Civilis belli libri decem. *Colophon*: — Venetiis in aedibus Aldi, | et Andree soceri Men | se Ivlio. M.D.XV.] sm. 8°. ff. (137), (3).

See *Renouard's* Annales de l'imprimerie, etc. I. 171, no. 71; *Brunet*, III. 1199.

This copy is from M. Libri's collection; on both sides of the cover are stamped in gilt the crest and cypher of an abbot. — A printed notice is pasted on the inside of the first fly-leaf.

Lucretius Carus, TITUS. De rerum natvra libri sex. D. Lambini, & Adr. Turnebi opera à multis mendis vindicati, recogniti, & perpurcati. Cum variis lectionibus & indice rerum insigniorum. Lvgdvni. 1613. sm. 16°. *Vign.*

"Vita ex Lilio Gregorio Gyraldo," pp. 3, 4.

Imperfect: — pp. 5-8, 55, 56, 123, 124 are cut; pp. 159-162 are wanting.

On the title-page is the autograph of John Evelyn, and above it the words, "Durate &c. Virg. *Æn.*" — On the fly-leaf opposite is a pencil note about Evelyn.

— *The same.* Ex editione Gilberti Wakefield. Londini. 1821. 24°. *Vign.*

On the second fly-leaf is a quotation in Mr. Sumner's handwriting from Wakefield's correspondence with Fox.

Luther, MARTIN. Parvus catechismus pro pueris in schola nuper auctus. Lipsiae, excudebat Laurentius Faber. 1556. sm. 8°. ff. (30). *Vign.*

Printed in Gothic and Roman characters; the title-page is printed in red and black ink.

— Prophetiae aliquot vere: et sententiae insignes: de calamitatibus, defectione, & tenebris, Germanæ obuenturis, eo in Domino mortuo, & perpetuo viuent. Collectæ per Iohannem Amsterdamm ecclesiae Dei ministrum. Accessit & altera pars, consolatorium sententiarum. [Magdeburgæ, per Michaelæ Lottherum. 1552.] sm. 8°. ff. (51).

Lycophron. Ἀλεξάνδρα. Εἰς αὐτὸ τοῦτο Ἰζακίου τοῦ Τζετζιζίου commentariis, ex fide manuscripti emendationibus factis. Adiuncta est interpretatio versuum latina, ad verbum, per Gvilielmvm Cantervm. Additæ sunt & eiusdem G. Canteri annotationes, nec non epitome Cassandraræ græcolatina, carmine anacreontico. [Genevæ, Paulus Stephanus. 1601. sm. 4°. ff. (8), pp. 211, 59. *Vign.*

On the second front fly-leaf is written, "Mr John Forster purchased from Lord Charlemont's library a copy of this edition of Lycophron containing Milton's signature & autographic notes, in the Pindar with Milton's notes are several references to Lycophron (see MS. index at end of Pindar) all of which refer to the pages in this edition the one possessed by Milton."

[**M., G.**] A relation of three embassies from Charles II to the great duke of Muscovie, the king of Sweden, and the king of Denmark. Performed by the earle of Carlisle in the years 1663 & 1664. Written by an attendant on the embassies. London. 1669. 8°. 2 *portrs.* of the earl of Carlisle and 2 of the duke of Muscovie.

Two of the portraits are duplicate impressions of the other two. The portraits of Carlisle are by Faithorne. On the second fly-leaf are four MS. notes.

Macpherson, JAMES. The poems of Ossian. Translated by James Macpherson. New ed. Containing Dr. Blair's three celebrated critical dissertations; and a preliminary discourse, or Review of the recent controversy relative to the authenticity of the poems. 2 vol. London. 1806. sm. 8°.

This copy formerly belonged to Lord Byron, and has extensive original annotations in his autograph, and his signature on the fly-leaf of each volume. At the end of the first volume is an original unpublished poem in his autograph, being a rendering into verse of Ossian's address to the sun, consisting of forty-two lines. — See printed notice, pasted on the inside of the front cover of the first volume.

Only one of the "Dissertations" mentioned on the title-page is by Dr. Blair.

Manuscripts.

* * The following list includes all the manuscripts in the collection. The arrangement is alphabetical by languages.

Dutch.

Fol. (1)^a tit. : — Dit is profectus religiosus | Dat spiegel der monicken | Sinte bernarts epistel toe horende den broeden | van der derder orden sã franciscj der stat | maestrecht wonende in die witmeke straat. — Fol. (200)^a : — Hier eyndet dat ander boeck van profectus. | In den iaer m.cccc.lxvi. ff. (222). cir. 4½ × cir. 6 in. 29 l. *G. L.* 1 vol., bound in wooden boards, the back and back cover in royal purple velvet much worn, and in one place torn and sewed up. The front side is covered with brass, ornamented in raised fretwork of arabesque pattern, studded with 46 carbuncles set in brass, and at each of the four corners a sardonyx, figured in intaglio; inlaid in the centre is a bone panel, with three full length figures (of saints?) in alto relievo.

Written on vellum, with initials and many other letters rubricated.

English.

ADAMS, John Quincy. [Lines addressed to the statue, representing the muse of history, which rests above the centre door of the hall of representatives, at Washington. Copied by Mr. Adams about two weeks before his last illness, in February, 1848, for Mr. C. H. Brainard, and signed by him, while sitting at his desk in the hall, on the day that he was struck with paralysis. On the same sheet is pasted a newspaper cutting relating to it. — Also, a letter addressed to Mr. William Cranch, of Cambridge, and dated Haverhill, Nov. 1, 1785. Accompanying both is a letter from Mr. C. H. Brainard, dated Custom House, Boston, May 8, 1861, presenting them to Mr. Sumner.] 8°. ff. (6).

The front cover is lettered in gilt, "The last paper subscribed by John Quincy Adams, February 21, 1848"; the back cover has, also in gilt, "This is the last of earth." On the inside of the front cover is stamped "C. H. Brainard."

ALI ZADE. [Copy of] the letter of Imaum Ali Zade, a Turkish cadî. [To which is prefixed an "Extract from the discoveries in Nineveh and Babylon. By Austin H. Layard."] Philadelphia. 1858. f. (1), pp. 5. cir. 3½ × cir. 4 in.

On the inside of the front cover is pasted a label bearing the inscription, "Edward Penington, Jr, Philadelphia."

BURKE, Edmund. Observations on the conduct of the Minority; particularly in the last session of Parliament: addressed to the duke of Portland and Lord Fitzwilliam. A manuscript, revised in the hand-writing of the author; to which are added some of his original letters. f°. f. (1), pp 40 + 4 *portrs.*

With the book-plate of Fillinham. — The added matter consists of four holograph letters, to each of which there is a frank attached; also a fac-simile of MS. no. 2.

BURNS, Robert. Letter to the Earl of Buchan Jan. XII. 1794 with Scots. wha hae wi' Wallace bled. 4°. pp. (4).

Pasted on a fly-leaf is a newspaper scrap containing a letter from Mr. John G. Whittier, read at the Burns festival, in Washington, 1869.

GREAT BRITAIN — Court of King's Bench. [Short notes of the proceedings of the court of king's bench, in 1772, in the case of Somerset, a negro; with arguments of Sergeant Davy, Sergeant Glyn, Mr. Mansfield, Mr. Hargrave, Mr. Alleyne, Mr. Wallace, Mr. Dunning, Sergeant Davy's reply and the conversation of Lord Mansfield and the other judges.] sm. 4°. pp. 10, 94, 111.

From the library of Granville Sharp.

— — *Order of the Garter.* [Copy of the statutes of the order, which belonged to Edward Seymour, earl of Hertford, afterwards duke of Somerset and Lord Protector, beheaded in 1552. A beautiful MS. of 26 leaves vellum, with illuminated initials. On each side of the first leaf are painted the arms of the Lord Protector.] ff. (26). cir. 4½ × 5½ in. 23 l. Quatern. *G. L.*

On the inside of the front cover is the autograph of "W. H. Black, Mill Yard, Goodman's Fields, London," and pasted on the adjoining fly-leaf is a MS. note by the same Black, giving an account of the history of the book. There are several pencil-notes on cover and fly-leaves.

LONDON, Eng. [Address of the working-men of London to the president, government, and people of the United States, expressing their sympathy for the death of Abraham Lincoln, and their congratulations for the suppression of the rebellion. Signed by Thomas Bayley Potter, chairman, and many others. London. 1865.] f° On parchment.

SCOTT, Sir Walter, *Bart.* Modern drama. f^o. ff. (26).

Six of the leaves are written on both sides; three are only half leaves.

VILLIERS, George, 1st Duke of Buckingham. [The answer and plea of George, duke of Buckingham, to the impeachment made against him by the house of commons.] pp. 23.

This is not in the autograph of the duke of Buckingham, and is without signature.

French.

DOTRINE (La) aux simples gens. [To which is appended, "Speculū Bⁱ Bernardi," in Latin.]—Fol. (18)^b.—Anno Dñi M.cccc.lx. ff. (2), xc., (18). cir. 2Xcir. 2½ in. 16 l. Quatern. G. L.

Written at Paris, on vellum, with rubricated headings and capitals and many illuminated initials.—The last leaf has been cut to one-third the size of the others, containing only five lines.

[FRANCE]. Etats appréciés de la Dépense de la Construction, armement et Equipement d'un Vaisseau de 800. canons, d'un de 80., d'un de 74., et d'un de 64. pour une campagne de 6. mois. [Brest. 1768.] sm. 8^o. f. (1), pp. 281.

There is some pencilling on the fly-leaves, which does not, however, explain the history of the book.

GEISSNER, Salomon. [Extracts from his Idyls, translated by Turgot.] ff. (13). cir. 4½ X cir. 6½ in. cir. 26 l.

On the first front fly-leaf is written:—"Manuscrit de la main de Turgot ministre de Louis XVI. Ce manuscrit qui est à lui des Idylles de Geissner que Turgot publia sous le pseudonyme de Huber a été vérifié sur d'autres manuscrits de Turgot existant à la bibliothèque Mazarine." Beneath this is written in Mr. Sumner's hand, "Turgot was one of the best & greatest ministers with which a country was ever blest. Charles Sumner. Sept. '71."

On the last fly-leaf at the end of the book is another MS. note, reading:—"la traduction des Idylles de Geissner est de la main de Turgot, ce sont ses premiers études qu'il publia sous le nom d'Huber, mais j'ignore complètement que peut être l'auteur de la traduction complète ci jointe des métamorphoses d'Ovide la traduction d'Ovide est de 1780."

OVIDIUS NASO, Publius. Extrait des metamorphoses. 1780. pp. 146. cir. 5Xcir. 7½ in. cir. 27 l.

Appended is a fragment of four leaves by the same hand, entitled "Le Jugement de Paris."

[VERS satyriques. Chansons galantes. Manuscrit ayant appartenu à Louis XIV.] obl. 8^o. pp. (95). *Illustr.* 1 vol., cf., gilt, in half maroon mor. case.

With the coat-of-arms of Louis XIV. stamped in gilt on the covers.

The title is taken from the back of the case.

VOYAGE de Rome par Auxerre, Dijon, Lyon, Marseille, Livorne et Civitavecchia. Avec le Retour par Lorete. Bologne Venise, Milan, Turin, Lyon. etc. Commencé le 1^{er} aoust 1664 achevé le 28 juin 1665. ff. (2), pp. 328. cir. 2½Xcir. 3½ in. cir. 20 l. *Diagrs.*

On one of the fly-leaves at the end of the book is written, "Ex libris Ant. Claventin 1667 H^o 021"; his coat-of-arms is stamped in gilt on both sides of the cover, and in each corner is his monogram.

German.

WEITENAU, Sebastian WIDTMAISER VON. [Diploma ennobling Sebastian Widtmaiser for his character and services as "Käyserlicher Universal-Banckalitet-Cameral-Liquidations-Buchhalter." Signed by Charles VI., Roman emperor. Dated Wienn 28^{ten} junii 1731.] pp. (23). cir. 6½X7 in. 17 l. G. L. *Illustr. coat-of-arms.*

Written on the finest parchment, the first page ornamented with scroll-work.

Hebrew.

סדר חדרה של פסח. [Order of the Passover; a singularly beautiful Hebrew manuscript of the seventeenth century, with illuminated title-page and illustrations representing the escape of the Israelites from Egypt. 20 leaves of very rich vellum, with gilt marginal lines.] 4½ X 7½ in. 26 l. 1 vol., red vellum, gilt, covers lined with green and gilt oriental paper. Sold for 300 francs.

Italian.

[BOTTA, Carlo (Giuseppe Guglielmo)]. Storia naturale e medica dell' isola di Corfu. f^o. pp. (84).

Latin.

ARGUMENTA singulorum capitum Geneseos per tetraesticha. Manv Estheræ Ing^l. Londini. 1608. obl. 64^o. ff. (62).

The title-page and dedication are surrounded by an illuminated border; this is a specimen of exquisite writing, each page differing from the others.

BARTHA, Hales? Introductio in Historiam Ecclesiae Unitariae [in Transylvania]. 4^o. pp. (174).

Attached to the last fly-leaf at the end of the book is an envelope superscribed, "Bishop of Transylvania," containing two MSS., viz.:—A list of periodicals and books relating to Hungary, and a copy of the official confirmation of Nicolaus Székely as superintendent of the unitarian churches in Transylvania, in place of Johannes Körmozai, 1838.

BASILIIUS *Cæsariensis*, Saint. [Oratio ad adolescentes de legis antiquorum seu gentilium libris. Translated, with a preface, by Leonardo Bruni Aretino.] ff. (37). cir. 2½ X cir. 3½ in. 13 l. Quintern. 1 vol., brown crushed levant, gilt; edges gilt on marble. Bound by Lortie.

Written on vellum, with two illuminated initials.

On the second front fly-leaf the subject of the book is written in French. The above title is taken from Hain.

BIBLE. *Lat.* (Vulg.) [Biblia sacra latina, cum prologis.] ff. (425). cir. 3 X cir. 4½ in. 2 col. 43 l. G. L.

Beautifully written in minute characters on very thin vellum, ornamented with many initial letters in gold and colors, in the centre of the greater part of which are little miniatures finely painted. See MS. notice pasted on the first fly-leaf. Sæc. xiii.

In binding, the tops of some of the pages were cut too close. Stamped on the back cover are the arms of some cardinal; the stamp on the front cover is indistinct. An iron ring is attached to the top of the back cover.

— The same. ff. (628). cir. 3 X cir. 4½ in. 2 col. 45 l. G. L. 1 vol., brown mor., covered with blind tooling in the old style. Sold for £12.

Beautifully written on fine vellum, with illuminated capital letters, and a large initial to the book of Genesis, occupying the length of the page, and containing eight separate miniatures, the lowest one a crucifixion. There are many MS. marginal annotations and the back fly-leaves are covered with writing. On the first back fly-leaf is the presentation-inscription, in Latin, dated 1476, of Marcus de Bononia to Jacobus de Bononia; to this leaf is attached a modern transcription of the same. But "notwithstanding the earliness of the Italian ownership, the MS. is evidently of French execution." See printed notice pasted on the first front fly-leaf. The initial letter F to Maccabees ii. 1 is wanting. Sæc. xiii.

This MS. is from the library of the duke of Sussex.

— N. T. *Lat.* (Vulg.) [Novum Testamentum.] ff. (95). cir. 3 X cir. 4½ in. 2 col. 51 l. G. L. 1 vol., red crushed levant, gilt, richly tooled in Grolier style. Bound by Bedford.

"Beautifully written in minute characters on vellum of most beautiful texture, with rubricated and ornamental letters." See printed notice pasted on the first fly-leaf.

On the back it is lettered "Sæc. XIII." The Catholic Epistles and the Apocalypse precede the Epistles of Paul. The famous passage 1 John v. 7, 8 has been rewritten by a later hand. Many other passages have been similarly altered. It has the book-plate of Willett Lawrence Adye.

[CATHOLIC CHURCH. *Kalendarium*, psalterium, cantica et preces.] ff. (113). cir. $2 \times \text{cir. } 3$ in. 21 l. *G.L.* 1 vol., brown crushed levant, covers lined with vellum. Bound by Belz Niedree.

Written in the thirteenth century on vellum, now yellow and stained, with rubricated capitals and figures. On the first page is written, "ex libris Biard," referring, probably, to the Jesuit missionary.

[— *Officium Beatæ Mariæ Virginis et quedam alia.*] ff. (77). cir. $2\frac{1}{2} \times 3\frac{1}{2}$ in. 20 l. Quatern. *G.L.* 1 vol., red mor., richly tooled in fine arabesque, with gilt edges.

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Officium Beatæ Mariæ Virginis*. — *Officium de sancta cruce*. — *Septem Psalmi penitentiales cum litanis suis*. — *Orationes diversæ cum Psalmis*.

Written upon vellum and richly illuminated; there are ten full-page illustrations, and each page has an illuminated margin.

Imperfect: — a leaf is wanting between ff. (45) and (46).

[— *The same.*] ff. (98). cir. $2\frac{1}{2} \times 4$ in. 15 l. *G.L.* 1 vol., cf., in the early Grolier style, illuminated in gold tooling, painted in compartments, with perforated metal clasps, edges gilt à la "antique."

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Officium Beatæ Mariæ Virginis*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Officium defunctorum*. — (ad vespas, in primo nocturno, ad laudes).

Written in the sixteenth century upon vellum and richly illuminated; there are fourteen full-page illuminations, and each page has an elegant border on one side; the "*Kalendarium*" is also illustrated by twenty-four miniatures. This MS. is from the library of the famous comatible of France, Anne de Montmorency, whose arms, stamped in gilt, form the centre ornaments of the binding; the four letters of the name Anne are also stamped in gilt on the four sides of both covers.

[— *The same.*] ff. (130). $3\frac{1}{2} \times 4\frac{1}{2}$ in. 16 l. *G.L.* 1 vol., mor., gilt edges, with silver clasps.

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Missa votiva de Sancta Maria*. — *Officium de sanctissimo Eucharistie sacramento*. — *Officium Beatæ Mariæ Virginis*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium defunctorum*. — (ad vespas, in primo nocturno, ad laudes).

This is the most richly illuminated MS. in Mr. Sumner's collection; it is beautifully written upon vellum and is ornamented with ten full-page illuminations and twelve miniatures; each page is also ornamented with an elaborately illuminated border, which in a few cases surrounds the entire page. The frontispiece contains a representation of the Madonna and child, with St. Bernard and the lady for whom the MS. was expressly prepared, beneath which is the lady's coat-of-arms. Her family genealogical tree is finely illuminated on the last page.

On the first front fly-leaf is pasted a MS. quotation by Mr. Sumner from Dibdin's "Bibliographical Decameron;" on the second front fly-leaf are critical notices by Dr. Thies of some of the full-page illuminations.

[— *The same.*] ff. (142). $2\frac{1}{2} \times 3\frac{1}{2}$ in. 15 l. *G.L.*

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Officium Beatæ Mariæ Virginis*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium defunctorum*. — *Suffragia solita*.

Written upon vellum and richly illuminated; there are thirteen full-page illuminations, and each page has an elegant border; the "*Kalendarium*" is also illustrated by twenty-four curious miniatures. Pasted on the first fly-leaf is a notice of this MS. by Dr. Thies, author of the Gray catalogue of engravings.

[— *The same.*] ff. (144). $2\frac{1}{2} \times 4\frac{1}{2}$ in. 20 l. Quatern. *G.L.*

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Missa votiva de Sancta Maria*. — *Passio Domini nostri Jesu Christi secundum Johannem*. — *Officium Beatæ Mariæ Virginis extra Adventum*. — *Officium Beatæ Mariæ Virginis in Adventu*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium defunctorum*. — *Orationes et suffragia solita*.

Written upon vellum and richly illuminated; there are thirteen full-page illuminations and twenty-six miniatures; each page has an elegant border.

Imperfect: — the "*Kalendarium*" lacks the months of September and October.

[— *The same.*] ff. (147). $2\frac{1}{2} \times 3\frac{1}{2}$ in. 15 l. Quatern. *G.L.* 1 vol., vellum, tied with thongs of chamois skin.

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Officium Beatæ Mariæ Virginis*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium defunctorum*. — *Orationes diversæ*. (In French and Latin.)

Written in the fifteenth century upon vellum, with gilt, rubricated, and ornamental letters; there are three miniatures, and fifteen of the leaves have exquisitely illuminated borders.

A printed notice is pasted on the inside of the front cover. Both sides of the cover have been twice covered with writing in French, now nearly illegible. On the first fly-leaf is the name "Ach Genty" and a few pencilled lines in French; on the second fly-leaf is written, "nous sommes Depouilly," which name is repeated on ff. (29) and (37).

Imperfect: — a leaf is gone between ff. (60) and (61), (65) and (64), (89) and (90), (121) and (122), and (137) and (138).

[— *The same.*] ff. (174). $1\frac{1}{2} \times \text{cir. } 1\frac{1}{2}$ in. 14 l. *G.L.* 1 vol., red velvet, much worn, edges gilt "gaufre."

Contents: — *Kalendarium*. — *Præparatio ad officium*. — *Officium de sancta cruce*. — *Officium de Spiritu Sancto*. — *Missa de Sancta Maria Virgine*. — *Officium Beatæ Mariæ Virginis*. — *Septem Psalmi penitentiales cum litanis suis*. — *Officium defunctorum*.

Written on vellum, with gilt, rubricated, and ornamental letters, and ten full-page illustrations, exquisitely designed and colored. On the inside of the front cover, and on the first fly-leaf, are rude pen-and-ink sketches.

Imperfect: — a leaf is gone between ff. (28) and (29), (72) and (73), (77) and (78), (94) and (95), (103) and (104), and (138) and (139).

* In ascertaining the character of the contents of these Office-books, we have been very greatly assisted by Mr. Richard Bliss, Jr., formerly assistant in the Museum of comparative zoölogy.

[CHAINED monastic MS., containing *Tractatus de Confessionibus audiendis*, *Peregrinus de Sanctis*, *Tractatus de Sacramento Altaris*, and *Constitutiones Clementis V. Papæ*. A fine MS. of 194 leaves, paper, written about 1390.] cir. $4\frac{1}{2} \times \text{cir. } 6\frac{1}{2}$ in. Sen. 1 vol., in the ancient oaken covers, with pigskin back, and the original iron chain wherewith it was formerly secured. Sold for £2/8.

The insides of the covers are covered with MS. See printed slip on fly-leaf.

CHRYSOSTOMUS, Joannes, *Saint*. De. Patientia. et. Eleemosyna. per. Hilarionem. Monachum. Veronevm. traductvs. ff. (96). cir. $1\frac{1}{2} \times \text{cir. } 4\frac{1}{2}$ in. 18 l. Quintern.

Written on fine vellum, in the pontificate of Sixtus IV. Only the title-page, the first page of the prologue, and the beginning of each book, are illuminated.

CICERO, Marcus Tullius. [De Officiis Libri iii.] pp. (258). cir. $3\frac{1}{2} \times 6\frac{1}{2}$ in. 23 l. Quatern.

"Italian MS. of the XVth century, beautifully written on fine vellum. The first page surrounded by an interlaced border with Amoretti and birds, of exquisite design; there are also four large richly illuminated capitals and numerous smaller ones." See pasted cutting on the inside of the front cover.

Imperfect: — illuminated capital belonging on p. 140 cut out, making the preceding page also imperfect.

GROTIUS (*Duch de Groot*), Hugo. Notæ in Senecæ atque aliorum tragœdias. pp. (57). cir. $4 \times \text{cir. } 6\frac{1}{2}$ in. 2 parts. 1 vol., cf. Bound by G. Murton.

This beautiful MS. was presented by the author to Peter Scriverius, the historian, and by him returned to Grotius with a complimentary letter dated 1625, which is on the fly-leaf preceding the portraits. On the inside of the front cover is pasted a printed notice of the book. On the second fly-leaf is written, in pencil, "From the collection of the late Reverend Mr John Mitford." On the fifth fly-leaf is pasted a description of the book in the autograph of W. H. Foss (?). On the two pages next to this, written by another hand, are extracts from letters by Grotius to Scriverius referring to this book.

[HORATIUS FLACCUS, Quintus. Odes, in manuscript of the fifteenth century, made for Leonardo Aretino, from whose hands it passed into those of the inquisitor Torquemada, according to a MS. note in Spanish on the back of the front fly-leaf.] ff. (84). cir. 2½×cir. 5½ in. 25 l. Quatern. 1 vol., vellum, lined with silver paper. Sold for 150 francs.

The initial M of the first ode is illuminated, and on the back of the last leaf is the autograph, "Al eximio Sr. Marques de Morante su obligado amico, Felipe de Soto."

LUCANUS, Marcus Annæus. *Pharsalia*. ff. (114). 4½×cir. 2½ in. 30 l.

This is an Italian MS. of the 15th century, beautifully written on fine white vellum with several illuminated capitals. The title and first lines of the poem are written in gilt capitals on the "recto" of the 6th leaf, and this page is surrounded by an elegantly interlaced border. The first five leaves contain a notice upon the life and works of Lucan, and a sketch of the war which has furnished the subject of the poem. The first five books are accompanied by a multitude of interlinear and marginal notes.

A printed notice of the book is pasted on the inside of the front cover.

NICHOLAS V. [Tommaseo PARENTUCELLI], *Pope*. [A papal bull, issued by Nicholas V., granting to Caspar Musotus de Malvicis of Bologna permission to build a mill near Castelguelfo, and exempting the same from all taxes. Dated Rome, 1447, 12 kl marcij (Feb. 18).]

Beautifully written on a large sheet of vellum, through the bottom of which are drawn the threads of red and yellow silk by which the seal was attached. Pasted in one corner is a printed notice.

PADUA, Italy — *Università*. [Diploma conferring the degree of Ph. D. upon Giacomo Pasquali, Dec. 18, 1656.] 8°. pp. (9). *Port.* and *coat-of-arms*. 1 vol., red velvet. A cord is attached bearing the remains of a seal.

Beautifully written on vellum, in roman characters, most of the initials and many other letters in gilt. The borders are richly illuminated.

[THOMAS Aquinas, Saint. *Secunda Pars secundum Libri Summæ theologicæ*.] ff. 8-263, 7. cir. 6½×cir. 9½ in. 54 l. G. L.

MS. of the fifteenth century, beautifully written in black, red and blue, on fine vellum. On three sides of the first page is a richly illuminated border.

Imperfect: — ending with *Quest. cxxi. Art. iv. 3d paragraph*, "cognoscit omnia prophetabilia." Portions of the margins of ff. 1, 3 and 7 are cut off.

Music.

BELLINI, Vincenzo. [First and last pieces of Bellini. In his autograph.] obl. 4°. pp. (3). (3).

With Bellini's autograph on the first page of the first piece. On the last page of each piece is a certificate from the British vice-consul at Catania, dated Oct. 1, 1849, certifying that Carmelo Bellini appeared before him personally and declared these MSS. to be the original compositions and in the handwriting of his brother, Vincenzo Bellini; made at the request of George Sumner. Each piece has Carmelo Bellini's autograph. In a MS. pencil note in Charles Sumner's handwriting, at the end of the first piece, it is written, "that this piece was Bellini's earliest production." In a similar note at the end of the last piece it is written, "that it was found on his desk at his death." Pasted in the front part of the book is a programme of a performance of Bellini's "Les puritains," at the Théâtre royal italien at Paris, Jan. 24, 1835.

HAYDN, (Franz) Joseph. Part of the Opera of Armida, by Haydn. The First Score, in the Author's own Hand-writing. obl. 4°. pp. (48).

With Haydn's autograph at the top of the first page; underneath the title is written in pencil, "Attestation in the autograph of W. Ayrton, Esq. F.R.S."

ROUSSEAU, Jean Jacques. *Solfèges à deux voix égales*. f°. pp. 26.

This is in the autograph of Rousseau, and on the last page are his initials.

Persian.

SAADI, or SADI. [The Gulistan, in Persian illuminated MS., exquisitely written on paper sprinkled with gold, containing nineteen richly illuminated miniatures, nine of which are portraits of the Mogul emperors, from Timur to Muhamad Shah, the rest being illustrations of the text. A. H. 1135 (or A. D. 1727).] ff. (165). 2½×4½ in. 12 l. 1 vol., in the original native morocco binding, richly gilt, enclosed in a European case of olive morocco. Sold for £21.

See printed slip on back of front fly-leaf.

Maps — *Algeria*. Carte du gouvernement d'Alger comprenant l'empire de Maroc, la régence de Tunis et une partie du grand désert. Par A. R. Frémin. Paris. [18..] 22½×13½ in.

The map is surrounded by an illustrated border.

— — *World*. Vni-versalior cogniti Orbis Tabvla. | Ex recen-ti-bvs confecta Observioni-bvs. [By Johann Ruysch. Rome. 1508.] 21½×16 in.

This is the earliest *engraved* map, showing discoveries in the New World, and it is thought to have followed the map made by Columbus in 1498, and now lost. North America, including Greenland, are represented as part of Asia. The West Indian archipelago is not fully delineated, but a passage through to the west is supposed. There are accounts of this map (which appeared in the editions of Claudius Ptolemy, *Geographia*, etc., published at Rome, in 1508), in Harrisse's *Bibliotheca Americana Velutissima*, p. 108; in the *Catalogue of the John Carter Brown Library*, l. p. 39; in Henry Stevens' *Bibliotheca Geographica*, no. 3058; and reproductions are given in Humboldt's *Examen critique*, V.; in his essay on the earliest maps appended to Gillian's *Geschichte des Martin Behaim*; in Stevens' *Historical and Geographical Notes*, pl. 2 (cf. *Historical Magazine*, August, 1869, p. 107); in Santarem's *Atlas composé de mappemondes depuis le 4^e jusqu'au 17^e siècles*; in Lelewel's *Moyen Age*; and a section is given in Kohl's *Discovery of Maine*, p. 156.

MARCELLINO, VALERIO. Il diamerone. Ove con vive ragioni si mostra, la morte non esser quel male, che'l senso si persuade. Con vna dotta, e giuditiosa lettera, ouer discorso intorno alla lingua uolgare. Vinegia. 1565. sm. 4°. *Vign.*

"A beautiful specimen of the library of Marco Foscarini, Doge of Venice, with his large arms in gold on sides." See printed notice pasted on the back of the first fly-leaf. On the second fly-leaf is a MS. notice of the book, in Italian, signed "Giulio Bernardino Tomitano."

Mare balticum id est Historica deductio utri regum Danie ne an Polonie prædictum mare à multis jam annorum centenariis, asserente non fallaci hominum censura, sed ipsa nunquam fallibili natura, se desponsatum fateatur & agnoscat, Poloni cujusdam nuper typis excuso tractatui qui discursus necessarius inscribitur opposita. N. P. 1638. sm. 4°. ff. (18).

MARQUETTE, JACQUES. Voyage et découverte de quelques pays et nations de l'Amérique Septentrionale par le p. Marquette et Sr. Joliet. [Paris. 1845.] 12°. ff. (2), pp. 43. *Map*.

Only 125 copies printed. No. 33.

On the leaf opposite the title-page is written, "Geo. Sumner Esq. from his Friend &c O. Rich."

This is a fac-simile reprint, including the map made in Paris, in 1845, for Mr. Obadiah Rich of London, of one of the sections of a collection issued in Paris in 1681, entitled *Recueil de Voyages de Mr. Thavenot*, of which there is a copy in this library. The text is an imperfect publication of the original journal, one copy of which is now preserved in the Collège Sainte Marie at Montreal, and has been printed as prepared by Father Dablon, with a translation, in Shea's *Mississippi Valley*, and again printed at New York, for Mr. Lenox, in 1855, as *Récit des Voyages du Père Marquette*, etc., a gap of two leaves being supplied from Thavenot's text. This New York text, abridged and mutilated, was reproduced in Douniol's *Mission du Canada — relations inédites*, as prepared

by Fathers Martin and De Montezan. HARRISSE, *Notes sur la Nouvelle France*, p. 140, compares the claims of several manuscripts of this journal.

Of Thevenot's text a defective translation was published in London in 1698, as a supplement to an English version of Hennepin. Later and better renderings are in the *Historical Magazine*, August, 1861, and in Part II. of French's *Historical Collections of Louisiana*.

The map which Thevenot gives, and which Rich reproduces, is not after Marquette's sketch, but follows with some variations, according to Parkman, *Great West*, p. 65, 408, an old MS. map entitled, *Carte de la Nouvelle France Découverte que les Pères Jésuites ont fait en l'année 1672, et continuée par le Père Jacques Marquette, etc.*, which, according to Harris, *Notes sur la Nouvelle France*, no. 202, was formerly in the *Bibliothèque nationale*, but cannot now be found. Mr. Parkman has a tracing of it, and he calls it "so crude and careless, and based on information so inexact, that it is of little interest." (*Great West*, p. 408. Another tracing is named in the *Catalogue of the Library of Parliament*, Toronto, 1858, p. 1615, no. 16. Shea, *Mississippi Valley*, p. lxxv, was in error as to the origin of this map. Sparks, *Catalogue of the Sparks Collection*, p. 175, calls it "the first ever published of the Mississippi river."

The genuine map of Marquette was reproduced for the first time by Shea in his *Mississippi Valley*, and later in his edition of the *Relation of 1673-79*. The engraving of it given in Douville's *Mission du Canada* has a small sketch of an Indian cabin on it, which does not appear in Shea's fac-simile. Cf. Harris's *Notes sur la Nouvelle France*, p. 142; Shea's ed. of Charlevoix's *New France*, III. 180.

[MAUPERTUIS, PIERRE LOUIS MOREAU DE]. *Venus physique, contenant deux dissertations, l'une, sur l'origine des hommes et des animaux : et l'autre, sur l'origine des noirs*. La Haye. 1746. 16°.

With the book-plate of Joseph Tasker.

MELANCHTHON, PHILIPP. *Historia de vita et actis Mart. Lutheri, bona fide conscripta. Adiecta sunt a Ioanne Pollicario Carmina quadam de beneficijs quæ Deus per Lutherum orbi terrarum contulit. Item disticha aliquot de actis Lutheri, quæ simul annorum numerum comprehendunt Denuo correctæ*. [Thuringiæ Hieræfordiam excudebat Gernasius Shürmerus.] 1548. sm. 8°. ff. (40).

— *Oration in funere reverendi viri D. Martini Lutheri, recitata*. VVitebergæ. 1549. sm. 8°. ff. (8).

MILTON, JOHN. A mask. Presented at Ludlow-castle, 1634. Before the earl of Bridgewater then president of Wales. N. P. 1645. 16°. ff. (2) pp. 50.

Below the words "A mask" on the title-page was printed "Of the same author;" over the words "Of the same" has been pasted a printed label, "Mr. John Milton." The paging, also, has been altered in ink, and a line added on page 3. This volume really consists of pp. 67-120 extracted from the 1645 edition of the minor poems of Milton, of which there are copies of the complete book in this library, in the Boston public library, and in the private collection of the late George Ticknor.

— *Paradise lost*. A Poem in Ten Books. The Author J. M. Licensed and entred [sic] according to Order. London. 1668. sm. 4°.

The first edition of this poem consisted of thirteen hundred copies, which were issued by instalments at eight (says Bohn) or nine (says Maason) times, with different titles and preliminary matter, during 1667, 1668, and 1669. The text of copies varies, often more than the titles and preliminary matter, as corrections were apparently made as the work progressed through the press, and, in binding up these instalments, corrected and uncorrected sheets were indiscriminately mixed. The present copy does not correspond to either variety as described by the bibliographers. It has what is called in Bohn's *Lowndes*, the third title-page, following which should come, according to that authority, the text, but intervening between the title-leaf and text, are seven leaves containing the Printer's Address to the Reader (five lines, — some issues have it in three lines), the Argument, the Verse, and the Errata. These seven leaves correspond in matter to what Bohn gives as the proper accompaniment of the sixth title-page, and they are like the copies of that title which are owned by the Public Library of Boston and Mr. Charles Deane. The Sumner copy has "Jane Goddard" written on the title, and the binding, though old, is seemingly not the original one, and unless this copy marks another variety, either the title or the preliminary matter has been added in binding to the text as first put forth.

MILTON, JOHN. *Paradise lost*. A poem, in twelve books. From the text of Thomas Newton. Birmingham, John Baskerville for Tonson, London. 1758. 8°.

On the fly-leaf, preceding the title-page, is a quotation from Dibdin's Library companion, p. 703, note, in Mr. Sumner's handwriting, relating to this edition.

— *The same*. In ten books. The text exactly reproduced from the first edition of 1667. With an appendix containing the additions made in later issues and a monograph on the original publication of the poem. [Edited by R. H. S.] London, B. A. Pickering. 1873. sm. 4°. Vign.

Also with a fac-simile of the original title-page.

The "Monograph" is signed R. H. S. A later fac-simile of this edition was issued in London 1877, edited by David Masson.

— *Paradise regain'd*. A poem, in four books. To which is added Samson Agonistes : and Poems upon several occasions. From the text of Thomas Newton. Birmingham, John Baskerville for Tonson, London. 1758. 8°.

— *Pro populo anglicano defensio, contra Clavdii Anonymi, aliàs Salsamii, defensionem regiam*. Londini. 1651. sm. 12°. Vign.

With the autograph of Edward Rushton on the title-page.

The library has also the edition of 1650.

MONTAIGNE, MICHEL (EYQUEM) DE. *L'esprit des Essais de Montaigne*. Paris. 1677. 12°. Vign.

Also with an engraved title-page.

With the book-plate of the marquis (?) J. M. H. Michau de Montaran. On the title-page is written, "anno 1804. Ex libris Williot" (?) — Stamped in gilt on both sides of the cover is the coat-of-arms of some member of the Vireau des Espoisses or de Villefrix families (?) — See Chevallier's "Dict. héraldique," etc. p. 166.

MONTLUC, or MONLUC, BLAISE DE L'ASSERAN-MASSENCOME, SEIGNEUR DE. *Commentaires*. Où sont décrits les combats, etc. esquels ce grand & renommé Guerrier s'est trouué durant cinquante ou soixante ans, qu'il a porté les armes [1521-1572] : ensemble diverses instructions, qui ne doyent estre ignorees de ceux, qui veulent paruenir par les armes à quelque honneur, & sagement conduire tous exploits de guerre. 2 tom. (paged continuously). Paris. 1594. 8°. ff. (4), 627, (13). Vign. 1 vol., green crushed levant, gilt. Bound by W. Pratt for H. Stevens. 1872.

On the title-page is the autograph of Edmund Waller.

MOSCOW, Russia — *Police*. *Kratkii tolovoi otchet Moskowskago ovyer-polits meistersa za 1838 gody*. Moskva. 1839. 8°. pp. 78 +, (3). Table. 1 vol., green satin, gilt border.

With many MS. notes, in English and Russian. On the first front fly-leaf is a MS. note in unidiomatic English by Gen. Leo Tinsky, "Police-Master-General of Moscow," presenting the book to George Sumner. Pasted between the first and second front fly-leaves are two scraps with autograph verses of Pushkin.

NAPOLEON I. [BONAPARTE], *Emp. of the French*, and Josephine [TASCHER], *uife of Napoleon I.* *Lettres de Napoléon à Joséphine, pendant la première campagne d'Italie, le consulat et l'empire ; et lettres de Joséphine à Napoléon et à sa fille*. 2 tom. Paris. 1833. 8°. 2 ports. and 7 fac-sims.

"Notice sur Joséphine, tirée de la Biographie universelle des contemporains." 1. 37-40.

Pasted on the back of the first front fly-leaf in vol. 1. is a printed notice of the book. Between the portrait of Bonaparte and the title-page, in the same volume, is pasted the original official receipt, given by the first consul to the minister of finance, for his stipend, in 1801.

NAUSEA, FRIEDRICH. *Frederici Nauseæ Blanci | campiani, eximii LL. | doctoris, inclytæ ecclesiæ Moguntinæ à | sacris Concionibus eminentiss. |*

Libri Mirabilium | Septem. Coloniz. 1532. sm. 4^o. ff. (6), 66. *Wdts.*

Very rare and curious. See Joecher's *Allgemeines gelehrten-Lexicon*, III. 836, and *Ergzgeb.* V. 415-418.

Nichols, John Gough. Autographs of royal, noble, learned, and remarkable personages conspicuous in English history, from the reign of Richard the Second to that of Charles the Second; with some illustrious foreigners; containing many passages from important letters. Engraved under the direction of Charles John Smith. Accompanied by concise biographical memoirs, and interesting extracts from the original documents. London. 1829. f^o. pp. xiv., ff. (63), pp. iv. 55 plates of facsimiles.

Nobilita et eccellenza delle donne (della), nuovamente dalla lingua francese nella italiana tradotto. [By F. A. Coccio.] Vinegia, appresso Ferrarij. 1544. sm. 8^o. ff. 29. *Vign.* 1 vol., cf., gilt, richly tooled in Grolier style.

On the title-page is the autograph of Ben Jonson, thus written, "Sum Ben: Jonsonij"; it has also the autograph of T. Hepburn, the Scottish poet. — A printed notice is pasted on the first front fly-leaf.

Notitia vtraque cvm Orientis tvm Occidentis vltra Arcadii Honoriiqve Caesarum Tempora, illustre Uetustatis Monumentum, imò Thesaurus prorum incomparabilis. Præcedit autē D. Andree Alciati Libellus, De magistratib. ciuilibusq; ac Militaribus Officijs, partim ex hac ipsa Notitia, partim aliunde desumptus. Cui succedit Descriptio Urbis Romæ, quæ sub Titulo Pub. Victoris circumferitur: & altera Urbis Constantinopolitanæ incerto Autore, nunquā antehac Typis excusa, imperiale uidelicet ac primariarū Sedium utriusq; Reipub. Svb iungitur Notitijs uetustis Liber De Rebus bellicis ad Theodosium Aug. & Filios eius Arcadium atq; Honorium, ut uidetur, scriptus, incerto Autore. Item, ne quid de antiquo Exemplari omitteretur, Disputatio Adriani Aug. & Epicteti Philosophi. [Edited by Sigismund Ghelen.] Basileæ, Froben. 1552. f^o. Colored vign., 106 colored wdts., etc.

Some of the woodcuts have been retouched with paint.

The library has also a copy of the 1593 edition.

Novus orbis regionvm. . . Basileæ. 1537. f^o. ff. (24), pp. 602. *Wdts.*

The title of this work is given at length under Huttich, but it is more frequently quoted as Grynzus' *Novus orbis* after the author of the preface. The printer's note at the end, reads: "Basileæ per Io. Hervagium mense novembri. anno M.D.XXXVI."

The present copy, bound by Clark and Bedford in full morocco, lacks the map properly belonging to it, according to Harriæ and the Carter-Brown catalogue, and bears the autographs of previous owners, "Henri Cooke," "Tho. Smith," and "Tho. Gray;" — the latter the English poet, who writes at the end, "cost me, 0 — 1 — 9," and on the title, "This Collection was originally published by Montalbodo Fracanzano of Vicenza (in the Italian tongue) under the title of *Mondo Nuovo*, 8^o, 1507, address'd to Gianmaria Angioletto, his countryman. They were turn'd into Latin by Arcangelo Madrigano, a monk of Caravalle in the Milanese, & publish'd at Milan in 1508, reprinted at Paris in 1532 by Simon Grynzus, in Folio; and now repeated at Basil in 1537." The marginal references of Gray are chiefly the English equivalents of Latin terms of geography and natural history; but at the section on Columbus he writes: "The voyages of Columbus were written by a Spanish gentleman, who went embassadour from Spain to the Sultan of Egypt; they were translated out of Spanish into Italian by Angelo Trivigiano, who had a personal friendship with Columbus." Again, against the narrative of Marco Polo, he adds: "The original of these curious Travels was in Latin, written by a Genoese nobleman (from the mouth of y^e traveller himself) in the year 1298. As copies of this work were very scarce Fra Pipino, a Bolognese, turn'd the Italian translation of it (which was then common) into Latin, which is the same here printed. Besides the barbarity of the style it is very erroneous & defective so that Ramusio thought proper to publish it in Italian (from an old MSS.) in the 2^d volume of his valuable Collection; and in 1671 And: Muller printed

in Latin perhaps the original found in the Elector of Brandenburg's Library." Gray seems to have read this section with care, and to have collated (apparently by the color of the inks at different times) the geographical names with what he calls "MSS." Mason, *Works of Thomas Gray*, London, 1827, p. 273, says that Gray, early in life, had an intention of publishing an edition of Strabo, and that he left a great number of geographical disquisitions and copious notes with respect to Persia and India, and concerning the ancient and modern names and divisions. The College Library has another copy [1354.27] of this edition, likewise lacking the map, — the gift of Samuel A. Eliot, in 1823, with the Warden Library.

This 1537 edition is described in Harriæ, *Bibl. Amer. Val.* no. 223 (who is in error in making the unnumbered preliminary leaves 24); Carter-Brown Catalogue, no. 123; Weigel's 1877 Catalogue; Muller's 1877 Catalogue, no. 1306; and there are other copies in the Cornell (Sparks' Collection), Lenox, Carter-Brown, S. L. M. Barlow, and J. C. Brevoort Libraries.

It contains, pp. 585-600 (should be 587-602), in addition to the earlier editions of 1534, a letter of Maximilian of Transylvania on Magellan's Voyage, 1510-1522, referred to in the title as having been undertaken under the auspices of the Emperor Charles.

The first edition of this collection was issued at Basle in 1534, and is described in Harriæ, no. 171; Carter-Brown Catalogue, no. 101; and there are copies in Harvard College (lacking seven leaves of the preliminary matter — 1354.28), Boston Public, Lenox, Astor, Carter-Brown, and Barlow Libraries.

The Harvard College copy of this 1532 edition has no map, and there seems to be some doubt notwithstanding the mention in the title, if there was one. Upon this point see Harriæ, p. 293, and the Carter-Brown Catalogue, p. 205, where the map is described as bearing the name of Oronotus Finzeus, with the date, July, 1531.

There was a Paris edition of this same year, 1532, of which there are copies in the Lenox, Barlow, and Carter-Brown Libraries. See Harriæ, no. 172, and the Carter-Brown Catalogue, no. 102. The Lenox Library has a second variety of this edition, which is given in Harriæ, no. 173, with a description of the map. This Paris edition does not vary in text from the Basle edition. Cf. Sabin's *Dictionary*, ix. p. 28.

In 1555, there was another edition printed at Basle with additions beside those taken from the 1537 edition, namely, the second and third of the Cortes narrations, letters on the propagation of the Gospel among the Indians, etc.; making this the most complete edition. It is described in the Carter-Brown Catalogue, no. 202; and a copy is in the Eberling Collection in Harvard College Library [1354.29]. In the map, North America, separated by water from South America, takes the place of Cuba, is called Terra de Cuba, and runs north and south from about 10° N. to near 50° N., and about 10° wide, except where a depression on the eastern side indicates the Gulf of Mexico. The region of Newfoundland and Labrador is represented as an island, Terra Cortesia, in mid ocean. The map is said to be the same as that in the 1537 edition, but it really represents the state of geographical knowledge of an earlier date. There are also copies of this 1555 edition in the Boston Public Library, in the Boston Athenæum, in the Astor Library, etc.

A reprint of the portion relating to America was issued at Rotterdam in 1616, with a dissertation "Super Ophrya regione" [Peru] by Varrerius (Gaspar Barreiros) appended, and Harvard College Library has a copy. Cf. *Carter-Brown Catalogue*, Part II. no. 110; *Graesse*, iv. 699; *Brunet*, iv. 132.

There were also German and Dutch translations issued in 1534 and 1563 respectively. Cf. Sabin's *Dictionary*, ix. p. 31. The German one is in Harvard College Library [1354.31]. The version was made by Michael Herr, and Sabin, ix. p. 30, says it is rarer than the original Latin. It has no map, omits also Münster's *Introductio* to the map; and enlarges the selection from Peter Martyr, over the other editions, and substitutes a preface by Herr for that by Grynzus. There are also copies in the Library of Congress and in the Carter-Brown Collection. Cf. Harriæ, *Bibl. Amer. Val.* no. 188, and references there.

Ostervald, Jean Frédéric D'. Select views in Sicily; accompanied by an historical and descriptive account. Translated from the original, published at Paris. The drawings of this work, chosen from the portfolios of artists of different nations, who have lately visited that country. London. 1825. f^o. ff. (29). 32 plates.

Imperfect: three plates are wanting.

Oultreman, or Outreman, Philippe D'. Le pédagogue chrestien, ou La manière de viure chrestienement. Tirée de la Sainte Escritvre & des saints pères, confirmée, & esclaircie par raisons, similitudes & histoires. Dernière éd. beaucoup plus ample, & correcte que toutes les précédentes, enrichée de nouveau d'une table en forme de catéchisme, & d'une autre table pour les prédica-

teurs, avec celle des matières, & augmentée de cottatious [*sic*] en marge par l'auteur. 2 pt. (paged continuously). Paris. 1637. 8°. ff. (12), pp. 757+. 1 vol., brown mor., gilt, richly tooled.

With a MS. note in front of the title-page.

Ovidius Naso, Publius. De arte aman | di volgare | Historiato & nuoua | mente corretto & | con somma dili | gentia stam | pato. [*Colophon*:] Venegia, Bindonis. 1542. sm. 8°. ff. (48). 5 wdcts.

The title-page is illustrated.

With the autograph of T. Hepburn.

— **Metamorphoseon**, libri XV. Cum notis Th. Farnabii. Amstelædami. 1668. sm. 12°. *Vign.* 1 vol., brown mor., gilt, richly stamped with fleurs-de-lis.

Pasted on the inside of the front cover is a printed notice of the book. — On the title-page is written, "Coll. Paris. Soc. Iesv."

Palmer (*Lat. Palmeranus*), Thomas, called **Thomas Hibernicus**, *Hybernicus*, or *de Hibernia*. Flores doctorvm pene omnivm, tam græcorvm quain latinorvm, qvi tvm in theologia, tvm in philosophia hactenus claruerunt. Postrema editio prioribus emendatior. Colonia. 1606. sm. 12°. ff. (12), pp. 934. 1 vol., vellum, delicately stamped, with brass clasps.

Paris guide par les principaux écrivains et artistes de la France. 2 pt. (paged continuously). Paris, etc. 1867. 18°. pp. xiv, xliiv, 2139+. *Fronts.*, *fac-sims.*, *wdcts.*, *plans*, *maps*, etc.

[**Pascal**, Blaise]. Les provinciales, ou Lettres écrites par Louis de Montalte à un provincial de ses amis, et aux Jésuites sur la morale & la politique de ces pères. Avec les notes de Guillaume Wendrock [Pierre Nicole], traduites en françois [by F. M. de Joncoux]. Nouvelle éd., revue, corrigée & augmentée. 2 tom. [Cologne?] 1700. 12°. 2 *ports.* 2 vol., brown crushed levant, gilt on marble edges.

Pasted on the inside of the front cover of tom. I. is the coat-of-arms of some member of the royal family of France (?) stamped in gilt on vellum.

Pasquali (*Fr. Paschal*), Carlo. Legatvs. Accessit Græcarum dictionum interpretatio, et index. Rothomagi. 1598. 8°. ff. (12), pp. 539+. ff. (5). *Vign.*

On the title-page and the last page of the index is the autograph of Jacques Auguste de Thou, written thus: "Jac. Avg. Thvni."

The title-page is ruled in red, and each page is surrounded by a red-line border. — At the bottom of the back of the cover is stamped "Fr. Radziwil," perhaps a former owner of the book.

Patrizzi (*Lat. Patricius*), Francesco, *Bp. of Gaeta*. De discorsi sopra alle cose appartenenti ad una città libera, e famiglia nobile; tradotti in lingua toscana da Giouanni Fabrini libri noue. Vinegia, Aldus. 1545. sm. 8°. ff. 278, (3).

Paulus Burgensis, or *de Sancta Maria*, formerly *R. SALOMON*, *Leuita*. [Fol. 1^a tit.: — *¶ Incipit dialogus qui vocatur scrutiniū scripturarum.*] Composit' p Reuerendū patre3 dominū Paulū de sancta | maria magistrū in theologia. Epm Burgeſi. archicācella | riū serenissimī pncipis dñi regis castelle et legionis quē cō | posuit post additiones positas ad postillam Nicolai de lyra | Anno dñmī. M.cccc.xxxiiii. etatis sue. anno. lxxxj. — Fol. 2^b, line 10: — Presens aūt tractat' diuidit' p distinc- coes. distinc | tiones vero p cap'ta modo infra scripto. — *In fine* Fol. 215^b: — Cui ho | nor et gloria in secula seculorū amen. Deo gracias. — Argentorati. cir. 1462?] f°. ff. (216). 39 *lines*.

G. L. Initials done by hand in colors. 1 vol., calf, ornamented in plain tooling, with yellow edges and brass clasps.

See *Pausan*, I. p. 71, no. 399. Not mentioned by *Hain* or *Graesse*.

On the front fly-leaf, in pencil MS., is the note, "Imprimé avec les caractères de J. Mentelin de Strasbourg — vers 1462 — relié par Schavye de Bruxelles." Secured to the same fly-leaf is the bill of 120 francs for this copy, dated Oct. 21, 1872, and signed in receipt by F. J. Olivier, of Brussels. There are MS. marginal notes, in red and black ink.

Pauquet, P., and H. Modes et costumes historiques dessinés et gravés par Pauquet frères d'après les meilleurs maîtres de chaque époque et les documents les plus authentiques. Paris. [1864.] 4°. 96 colored plates.

Perrault, Charles. Histoires ou Contes du tems passé, avec des moralitez. Nouvelle éd. augmentée d'une nouvelle, à la fin. [L'adroite princesse.] Amsterdam. 1721. 24°. *Front.* and *engrs.* 1 vol., green crushed levant, gilt on marble edges. Bound by Trautz-Bauzonnet.

The "Épître" is signed "P. Darmancour," the name under which the author first published this work.

Petrarca, Francesco. Il Petrarca. Lione, *Giovanni di Tournes*. 1545. sm. 16°. pp. 400, ff. (8). *Port.* 1 vol., cf., gilt, sides richly tooled in Grolier style.

See *Brunet*, IV. 550.

— [Fol. 1^a: — PROEMIO DI MESSER FRANCESCO. | PETRARCA NEL LIBRO DEGLI | IMPERADORI ET PONTEFICI: | (e)SSENDO. GLIHMANI. IN | GEGNI. NATURALMEN | TE DESIDEROSI CO | noscere glegregii fatti de passati: | — *In fine* Fol. 101^b: — FINISCONO. Le uite de Pontefici & imperadori Roma | ni Da Messere Francesco Petrarca in fino a suoi tempi con | poste. Dipoi con Diligenza & breuita seghuitate infino nel | lanno. M.CCCC.LXX.VIII. | IMPRESSVM. FLORENTIÆ. APVD. SANC | TVM. IACO- BVM. DE. RIPOLI. ANNO. DOMI | NI. M.CCCC.LXX.VIII.] sm. f°. ff. (2 + 101). 33-34 *lines*. *R. L.* 1 vol., red mor., gilt edges. Sold for £10 10s.

The two leaves prefixed contain an alphabetical index of the names of popes and emperors. These leaves are not mentioned by *Hain*, no. 12809.

This is a unique copy of the "editio princeps," with "numerous MS. notes in the autograph of the celebrated Lorenzo de' Medici, and his signature on the last leaf." See printed slip on the back of the front fly-leaf.

Phaedrus. Fabvlarvm æsopiarvm libri v. Nova editio. Festi Avieni fabvlarvm liber. [Edited by Nicolas Rigault, with notes.] Parisiis, *Cramoisy*. 1630. sm. 12°. *Vign.* 1 vol., red crushed levant, gilt on marble edges. Bound by Trautz-Bauzonnet.

These fables are often wrongly attributed to Rufus Festus Avienus, but their real author is Flavius Avianus or Avienus.

This volume is from the library of the marquis de Morante, and has his arms stamped in gilt in the centre of each side of the cover; in each corner is his monogram surmounted by a coronet. See *MORANTE*, J. G. DE LA C., *Marquis DE*. Catalogue, etc. I. 155, no. 848.

Picard, Jean. La grande confession generale. Labsoute generale | q lon dit cōmunemēt le iour de Pasques | aux eglises parrochiales. Paris, *Laurens de Vauuersis*. N. D. sm. 8°. ff. (8). *B. L.* 1 vol., brown crushed levant, edges gilt on marble; with inside borders tooled. Bound by Trautz-Bauzonnet.

Pignoria (*Lat. Pignorius*), Lorenzo. De servis, et eorvm apvd veteres ministerijs, commentarius. In quo familia, tum urbana, tum rustica, ordine

productur & illustratur. Ed. 2^a indice gemino locupletata. Patavii. 1656. sm. 4^o. *Vign.*, *port.* and *wdcts.*

On the title-page is written, "Fr. Wingham 1813."

Pindarus. Carmina cum lectionis varietate curavit Christian. Gottlob Heyne. Gottingae. 1773. 8^o. *Vign.* 1 vol., green mor., gilt. Bound by Roger Payne.

A printed notice of the book is pasted on the inside of the first fly-leaf. On the inside of the front cover is pasted the insignia of (?) stamped in gilt on green morocco. This book is of interest as offering a good specimen of the work of the famous English binder, Roger Payne, and there is pasted in it his bill for binding it, made out in his usual and characteristic way:—

"PINDARUS } A good deal of Lettering done in the most
AB HEYNE } Correct Manner in Workmanship & finished
FRAGMENTA } in the most correct manner & neatist Taste
AB SCHNEIDER } with small Tools inside and outside. This
Book was very difficult to Beat & required great care & a great
deal of Beating several times. Cutt as Large as possible and
Bound in y^e very Best manner. The Back lined with Russia
Leather. It was one of the most difficult Books to bind well I
have ever found. 1:3:0."

— Addimenta ad Lectionis varietatem in Pindari Carminum editione Gottingensi cl. JOHANNES SCHNEIDER notatam. Ab editore Chr. G. Heyne. Gottingae. 1791. 8^o.

— Carmina ex interpretatione latina emendatio. Curavit Christian. Gottlob Heyne. Gottingae et Gothae. 1774. 8^o.

— Carminum pindaricorum fragmenta. Curavit J. Gottlob Schneider. Argentorati. 1776. 8^o. *Vign.*

— Olympia, Pythia, Nemea, Isthmia. Iohannes Benedictus, ad metri rationem, variorum exemplarum fidem, scholiastae ad verisimiles coniecturas directionem, totum auctorem innumeris mendis repurgavit. Metaphrasi recognita latina paraphrasi addita, poetica & obscuris phrasibus graeca prosa declaratis; denique adiectis rerum & verborum brevis & sufficientibus commentariis, arduum eiusdem sensum explanavit. Editio praevisima, cum indice locupletissimo. Salmvrii. 1620. 4^o. ff. (8), pp. 756, ff. (28). *Vign.*

This book formerly belonged to the poet Milton; the margins throughout bear his MS. notes in Latin and Greek, and at the end he has added an alphabetical index, occupying two closely written pages, of all the authors cited (except Homer and Pindar), with references to the different places where they are mentioned in the annotations. See printed notice pasted on the inside of the front cover. There is also inserted the following:

"This book (Pindar) I purchased at Messrs. Sotheby's, Aug. 5, 1871, my opponent being Mr. Addington, the well-known collector of autographs. Mr. Waller, the dealer in autographs, told me after the sale, that he had no doubt about the notes being Milton's writing. After its purchase I had an opportunity afforded me of comparing this volume with the Lycophron bought for Mr. Forster at Lord Charlemont's sale. The writing compared very satisfactorily therewith, when the nature of the paper on which the Lycophron is printed is taken into consideration, it being nearly like blotting paper and very difficult to write upon. And in another way this Lycophron afforded a strong piece of circumstantial evidence, as in this Pindar certain passages of Lycophron occurring at certain pages, are referred to; and all these passages are to be found exactly at the pages as referred to in the MS. notes in this book.

"The date given as the time occupied in the perusal (see end of book, before Errata), viz.: Jun. 17, 1630 to Sept. 28, 1630, was part of a forced interval of leisure, which Milton was compelled to take during his University career, owing to the Masters, Fellows, and students, all having fled from Cambridge during the ravages of a fearful epidemic. From Apr. to the end of Nov. 1630, Cambridge was completely deserted. (See Masson's Life of Milton, Vol. I. p. 200.)

"I gave at the sale £41 for the volume, Mr. Addington, the underbidder, having bid £40.

"London, 196, Piccadilly,
Nov. 11, 1872."

See note under Lycophron in this list.

"B. M. Pickering.

At the top of the title is written in the same hand with the notes: "Novemb. 15^o. 1620. *perd.*—9^o—0." It was no. 1388 in Sotheby's Catalogue, and bears on a fly-leaf, "Ex Libris C. Benson," and the initial B is attached to some Latin notes in a later hand. See p. 2, etc.

Cf. Sotheby's *Ramblings in the Elucidation of the Autograph of Milton*, for much on Milton's practice of annotating his books.

Plautus, Titus Maccius. M. Accivs Plavtus ex Fide, atque Avtoritate complurivm Librorvm Manuscriptorvm Opera Dionys. Lambini Monstroliensis emendatus: ab eodemque commentariis explicatus. Adiecta sunt Plautina loca ex antiquis grammaticis collecta: & ex commentario antiquarum lectionum Iusti Lipsii multorum Plauti locorum illustrationes & emendationes. Cum gemino Indice. Lugduni. 1578. f^o. ff. (4), pp. 792+. *Vign.*

This book was once owned by Dr. Johnson, whose autograph, "Sam: Johnson," is written on the title; as also the following inscription, showing it also to have belonged to the famous Isaac Casaubon and his son: "Merico Casaubono Filio dedit Is. Casaubonus." The margins have numerous annotations in ink, partly cut off in trimming, which seem to be rather in the hands of the earlier owners than of Johnson.

Mark Pattison in his *Life of Isaac Casaubon* mentions two books in the British Museum bearing Casaubon's marginal annotations, p. 117, a copy of Calvin's "Epistolae," and p. 499, one of Bodin's "Theatrum;" and p. 482, he says of Casaubon's books, "The printed books which belonged to him were scored under and marked anyhow to catch the eye in turning over the leaves. The blank pages, the title-page, or any page, served to hold a reference. Hence, while the scholar holds among his choicest treasures a Greek volume with marginal corrections in Scaliger's hand, a volume which has belonged to Casaubon is merely defaced by the owner's marks and memoranda." The library has also a copy of the 1577 edition.

Mr. Pattison adds in a letter, after tracings of the annotations had been submitted to him: "In my 'Isaac Casaubon,' p. 117, you will see that Plautus' Captivei is named as one of the subjects on which I. C. lectured at Montpellier in January, 1598. In his *Ephemeralia*, i. p. 64, he enters what is like an apology to 'Deus immortalis' for occupying himself with a book, which he thought not adapted for edification, and states that he took it 'at the request of the students.' I should not be surprised to find that your volume is the very volume read and marked by him at Montpellier, on occasion of this lecture. . . . It has an interest for me in the fact that I. C., who in 1598 had thought Plautus an undesirable book for a class-book, did not at a later time think it an improper book to put into the hands of his young son. Meric was only 15 at the time of his father's death." This copy is particularly marked all through the pages of the "Captivei."

Plinius Secundus, Caius. Sommaire des Singularitez de Pline. Extrait des seize premiers livres de sa Naturelle histoire, par P. de Changy. [4^e éd.] Paris. 1550. sm. 8^o. ff. 50. *Vign.* 1 vol., cf., gilt. Bound by H. Duru.

Printed in cursive characters.

Plutarchus. [Table tresample des noms et choses notables, contenues en tous les Opuscules de Plutarque. Paris. 1574?] 8^o.

The Index volume to the French translation of Plutarch's *Morals* by Jacques Amyot; probably belonging to the edition printed at Paris in 1574. With the autograph of Robt. Cecil, son of Lord Burleigh.

Poissonnier-Desperrières, A. M. G. Vie politique et militaire du général A. M. G. Poissonnier-Desperrières, écrite par lui-même. Paris. 1824. 8^o. *Port. of Louis Charles, dauphin of France, called Louis XVII.*

Pasted on the inside of the front cover is a portrait of Louis XVII (?) when very young; on the 2d front fly-leaf is pasted an autograph letter of the author, dated "le 29 brumaire l'an 9 de la république française," and addressed "au citoyen Neveu, commissaire du gouvernement chargé de la partie des?" Stamped in gilt on both sides of the cover are the arms of?

Poissonnier-Desperrières, Antoine. Traité des maladies des gens de mer. Paris. 1767. 8^o. *Plate.*

Stamped in gilt on both sides of the cover are the arms of Maupeou, Chancellor of France.

Poliziano (*Lat. Politianus*), Angelo. [Miscellanea. — Fol. 1^a tit.: — ANGELI POLITIANI MISCELLANEORVM CENTV | RIAE PRIMAE AD LAVRENTIVM MEDICEM | PRAEFATIO. — Fol. 91^a: — FINIS. — Fol. 91^b: — Impressit ex archetypo Antonius Mischominus. Familiares | quidam Politiani recognouere. Politianus Ipse | nec Hortographian se ait, nec omnino | alienam prestare culpam. | Florentiae Anno Salutis. M.CCCC.LXXXIX. Decimotertio | kalendas octobris. *Insign. typogr.* — Fol. 92^a: — REGISTRVM. — Fol. 93^b: — EMENDATIONES.] 4^o. ff. (94). 32 lines. R. L. 1 vol., shp., marbled and ornamented in diamond blocks.

See *Hain*, no. 13221. In this copy, the leaves designated by Hain as 93 and 94 are prefixed to fol. 1. This is a presentation copy from the author to his friend Alessandro Sarti. Fol. 91^b has, in Poliziano's autograph "Angelus Politianus Alexandro Sarto Bonon. suo dono dat monumentum et pignus amoris M.CCCC.LXXXIX. die Maii Bononiae. Ego Angelus Politianus, quamvis Archetypus tuor nugas." On fol. 92^a this is copied in another hand, with an English translation and attempt at explanation. The volume was bought by John Dillon at a sale of autographs in Paris, Nov. 1862, and has his autograph on the second front fly-leaf, with a MS. bibliographical note. Opposite this leaf is pasted a portrait of Poliziano, engraved on steel. The initial letters, throughout the book, are done by hand in green ink. There are several marginal glosses and corrections in Poliziano's hand-writing.

Pompignan, Jean Georges LE FRANC DE, *abb. of Vienna*. La divozione riconciliata collo spirito. Dal francese trasportata per la prima fiata nell' italiana favella. Torino. 1738. sm. 12^o. *Vign.*

"From the books of the princess Victoire" of France, daughter of Louis XV., the covers stamped with her arms.

Pontano (*Lat. Pontanus*), Giovanni Gioviano. Opera. Vrania, siue de Stellis libri quinq; Meteororum liber unus. De Hortis hesperidum libri duo. Lepidina siue postorales [*sic*] pompæ septem. Item Meliseus. Mæzon Acon. Hendecasyllaborum libri duo. Tumulorum liber unus. Neniz duodecim. Epigrammata duodecim. [Ed. 2^a. Venetiis, in aedibus Aldi, et Andreae Asulani socii. 1513] sm. 8^o. ff. 255. *Vign.* 1 vol., cf., gilt, "à la Grolier."

This volume is from the library of the marquis de Morante, and has his book-plate. See MORANTE, J. G. DE LA C., *marquis de*. Catalogue, etc. I. 258, no. 1442.

— The same. [Ed. 3^a. Venetiis, in aedibus haredum Aldi Manutij, et Andreae socii. 1533] sm. 8^o. ff. (8), pp. 247. *Vign.* 1 vol., cf., gilt, in the original Grolier binding; sold for £31.

The printer's mark on the title-page and at the end of the book are illuminated by hand. The seventeen large capitals and several smaller ones, which are wanting in the other copies, are supplied in gilt, by hand, in this. On the front cover is stamped, "Io. Grolierii et amicorum;" on the back, "Portio mea Do | mine sit in | terra vi | venti | vm." Pasted on the fly-leaf before the title-page are two letters concerning the "pedigree" of the book.

[POPE, ALEXANDER]. An essay on man. Address'd to a friend. Pt. i. London. [1733] f^o. pp. 19.

"With Mr. Pope's own MS. corrections found among the papers of Mr. Wortley by R. P." — See MS. note on title-page. There were, according to Elwin, three sizes of the first edition, published anonymously and without date on title, in February, 1733. This is the folio size, the others being quarto and octavo. This edition contains the address "To the Reader," omitted subsequently. For an account of Pope's corrected copies, see Elwin's Introduction to his *Works of Pope*, vol. i.

The corrections noted in this copy, which are largely transpositions, with some verbal changes, seem to be those for the most part embodied in the 1735 edition. Many of the variations are noted in Elwin's edition; but a few of these MS. changes have no record there; they are not, however, of importance, except as symptoms of the poet's process of transforming his text.

The autograph of John Dillon on the fly-leaf shows that the book at one time belonged to him.

— Things about Pope. Collected by H. Walpole. 4^o.

The above title is taken from the back of a quarto volume, which has the book-plate of Horace Walpole, pasted on the inside of the cover, and above this plate a list of the contents of the volume in Walpole's hand. On the opposite fly-leaf are the following MS. notes:—

"This volume I bought at Strawberry Hill. It contains some curious portraits, and caricatures of Pope. (The plan of Pope's garden and grotto is extremely rare.) Also, views of Pope's house, etc. and a curious portrait of Mrs. Katharine Phillips. (See *The Crooked Sixpence*.)

GEORGE DANIEL,

"Canonbury, 1842."

"In this volume will be found the very rare caricature of Pope, to which he refers in his noble epistle to Dr. Arbuthnot:

'The libell'd person and the pictur'd shape.'

"John Searle, or Serie, his old and faithful servant, whom he has remembered under that character in his will; of whose fidelity, Dodsley, from his own observation, used to mention many pleasing instances. His wife was living at Eccleshall, 1783, ninety years old, and knew many anecdotes of Pope.

'Shut, shut the door, good John; fatigu'd I said,
Tye up the knocker, say I'm sick, I'm dead.'

"GEORGE DANIEL."

The volume, which is not, however, wholly devoted to Pope, contains:—

1. A portrait in mezzotint, "Mr. Pope. Sold by S. Sympson in Maiden Lane, Covt. Garden. G. Kneller, pinx."

2. A larger mezzotint, "Alexander Pope, Poeta Anglus. Ob. A^o. 1744. /Etat: 57. Hanc imaginem ex ipso Archetypo a VANLO picto 1742 expressam viro HONORABILI GULIELMO MURRAY SOLICITATORI GENERALI apud quem Deposuit Humillime D D D."

3. A plan of Mr. Pope's garden, as it was left at his death: with a plan and perspective view of the grotto. All taken by J. Serie, his gardener. With an account of all the gems, minerals, spars, and ores of which it is composed, and from whom and whence they were sent. To which is added, A character of all his writings. [By William Thompson.] London, printed for R. Dodsley. 1745. (Price 1s 6d.) Opposite the title is a folded plan of the garden; a plan of the grotto faces page 5, and a perspective view, page 10. The "Account of the materials" is followed by Pope's "Verses upon the grotto at Twickenham," with two Latin versions, and one in Greek; a Latin Sapphic ode; R. Dodsley's "Cave of Pope; closing a prophecy," Thompson's "Character of Mr. Pope's writings."

Searle's pamphlet is reprinted in the appendix to Carruther's *Life of Pope*.

Inserted are the four following numbers:—

4. The caricature of Pope, representing him as a monkey with a triple crown, and marked "His Holiness and his Prime Minister," with *Neque te ipsum* above the plate.

5. A mezzotint profile portrait, "Mr. Pope. G. Kneller Bart. Pinx't. 1721. I. Faber fecit 1738."

6. Engraving, "Pope's House. I. Farington, R. A. Del' F. C. Stadler sculpt."

7. Engraved sheet of music. "An epitaph by Mr. Pope. For 3 voices, set by Dr. Green, in 1729"

8. The pantheon: a vision. London. 1747.

On the half-title is written, apparently by Walpole, "By Mr. Blakiston."

9. [MASON, William]. Musæus: a monody to the memory of Mr. Pope, in imitation of Milton's Lycidas. London. 1747. Marked by Walpole, "By Mr. Mason." There are other copies of these verses in Mason's *Poems*, in Dodsley's *Collection*, in Chalmers's *English poets*, etc.

10. Pope's villa (an engraving); engraved by John Pye, figures by Charles Heath, from a picture by J. M. W. Turner.

11. Pope, Alexander. Verses on the grotto at Twickenham. Attempted in Latin and Greek. To which is added Horti Popiani: ode sapphica. Also The cave of Pope. A prophecy. [By Robert Dodsley.] London. 1743.

See no. 3: the same are in Dodsley's *Collection*, 1765, iii. 5.

12. BROWN, John, D.D. An essay on satire: occasion'd by the death of Mr. Pope. London. 1745.

Also in Dodsley's *Collection*, 1765, iii. 359.

13. FÉNELON, François DE SALIGNAC DE LA MOTHE, *Abb. of Cambrai*. The adventures of Telemachus, son of Ulysses. The first book. Translated from the original French prose into English verse. London. 1738.

14. THE JUBILADE. An ode in paraphrastic imitation of the 5th ode of Horace, book iv., with additions. Humbly addressed to His Majesty, on his absence abroad, and the glorious success of his arms. London. 1743.

15. BROWN, John, D.D. Honour. A poem. London. 1743.

Walpole had marked it, "By Mr. Nugent." It is reprinted in Dodsley's *Collection*, 1765, iii. 326.

16. [PHILIPS, Mrs. Katherine (FOWLER)]. The crooked sixpence. With a learned preface found among some papers bearing date the same year in which *Paradise lost* was published by the late Dr. Beutley. The original manuscript will be deposited in the Cotton-library. London. 1743.

Contains also "The splendid shilling, by Mr. John Phillips"; and inserted is a portrait-bust, engraved, and inscribed, "Mrs. Catherine Phillips."

17. THE DEVILIAD. An heroic poem. London. 1744.

18. AN EPISTLE to Curio. London. 1744.

Walpole has added against Curio, "L^d Bath."

19. AN ODE, to Mr. Handel. London. 1745.

20. WIT, a poem. London. 1745.

21. JOVI Eleutherio: or, an offering to liberty. London. 1745.

Reprinted in Dodsley's *Collection*, iii. 53.

22. MODERN virtue. A satire. London. 1746.

23. PLAIN truth: a satire. London. 1747.

Porter, FRANCIS. Syntagma variarum ecclesiæ definitionum, in materia fidei, & morum, à sæculo quarto, ad præsens vsque tempus editarum. Cum duplici indice. Romæ. 1681. sm. 8°. *Vign.* 1 vol., red mor., richly tooled, gilt, "à la antique."

Dedication copy to Cardinal Alieri (afterwards Pope Clement X.), with his arms stamped on both sides of the cover. — See MS note on first front fly-leaf.

Postel, GUILLAUME. De Foenicvm li | teris, sev de prisico | Latine & Græce lingue | caractere, eiùsq; an | tiquissima origi | ne & vsu. Parisiis, apud Martinum Iauenerm. 1552. sm. 8°. ff. (51). 1 vol., red crushed levant, gilt, richly tooled. Bound by Capé.

See *Brunet*, iv. 840; *Graesse*, v. 424.

This copy does not contain the two folded tables mentioned by the above authorities; it is from the library of the marquis de Morante, and his book-plate stamped in gilt on green paper is pasted on the inside of the first front fly-leaf. — See MORANTE, J. G. DE LA C., *marquis DE*. Catalogue, etc. i. 109, no. 583.

Poznyakof, Th. Karmannyi potchtovyi putevoditel'. Sanktpeterburge. 1831. sq. 24°. ff. (2), pp. v., 806, 15. 2 tables and 2 maps. 1 vol., cf.; and 2 maps mounted on cloth & folded; all in a board case covered with marble paper.

On the back of the front fly-leaf is the autograph of R. W. Odovsky, presenting this volume to "Monsieur de Sumner."

Present (A) for a papist: or The life and death of Pope Joan, plainly proving out of the printed copies, and manuscripts of popish writers and others, that a woman called Joan, was really Pope of Rome, and was there deliver'd of a bastard son in the open street, as she went in solemn procession. By a lover of truth, denying human infallibility. London. 1675. sm. 8°. *Front.*

[Packle, JAMES]. The club. In a dialogue between father and son. 3d ed. London. 1713. 12°. pp. 70+. *Port.*

On the title-page are the autographs of "A Pope" and "I Swift."

Rabelais, FRANÇOIS. Oeuvres, publiée sous le titre de Faits et dits du ge'ant Gargantua et de son fils Pantagruel; où l'on ajouté le frontispiece; le vrai portrait de François Rabelais; les particularités de sa vie et ses mœurs; la carte du Chinonnois; le dessin de la cave peinte; les différentes vues de la devinière, métairie de l'auteur; la dive bouteille; la clef du Rabelais, &c. Copiés par A. Caron, d'amiens, 1822, sur l'édition d'Amsterdam d'Henri Bordesius. MDCCXI. 2 tom. (paged continuously). N. P. [1626.] sm. 8°.

Both volumes are very imperfect. The title-page, first eight leaves, leaf inserted between pp. 236 and 237, the title-page of the "3^e livre" and pp. 361, 362 in the first volume, the third front fly-leaf, the pages between pp. 766 and 783, the leaf between the title-page of the "5^e livre" and p. 939, the pages between pp. 992 and 995, and between 1066 and 1069, and the last eleven leaves of the second volume are in MS.

See *Brunet*, iv. 1058.

[Rapin, RENÉ]. Les artifices des hérétiques. Paris, Cramoisy. 1681. 12°. *Vign.*

This is a free translation of the book of Gilles Estrix, entitled: — "De fraudibus hæreticorum nostri sæculi ad orthodoxos. Per Franciscum de Simonia. 1677. 8°." — See Barbier's *Dict. des anon.*, i. 97, no. 1317; Backer's *Écrivains de la compagnie de Jésus*, i. 606.

The "Épître" is signed ***, below which the author's name is written in ink; his name is also written on the title-page; possibly these are autographs. Both sides of the cover are stamped with the coat-of-arms of Harlay de Chanvalon, Abp. of Paris. See MS note on the first front fly-leaf.

Religion (LA) ancienne et moderne des Moscovites. Cologne. 1698. 16°. *Front.* and 6 *wdcts.*

Stamped in gilt on the outside of the front cover is a coat-of-arms surmounted by a baronial coronet.

Rhegius (Germ. König), URBANUS. Catechesis, illvstrissimo principi Francisco Othoni, Brunsuicensium, Luneburgensiumq; duci, puero generosissimo, & toti scholæ ducali dicata. VVittebergæ, ex officina Thomæ Klug. 1554. sm. 8°. ff. (127).

With MS. marginal notes.

Rousseau, JEAN JACQUES. [A collection of MSS., engravings, fac-similes, etc. relating to the life and works of Rousseau.] 4°. pp. 12.

It contains some pages from the visitors' book kept at Rousseau's residence, Ermenonville, dated 1810, 1825-7, in which the signatures are mostly by initials; fac-similes of poems and music by Rousseau, etc.

Saint-Amant, MARC ANTOINE GÉRARD, sieur DE. La Rome ridicule. Caprice. Paris. 1661. sm. 12°. pp. 37. 1 vol., red crushed levant, gilt. Bound by Trautz-Bauzonnet.

This volume is from the library of the marquis de Morante, and has his arms stamped in gilt in the centre of each side of the cover; in each corner is his monogram surmounted by a coronet. See MORANTE, J. G. DE LA C., *marquis DE*. Catalogue, etc. i. 233, no. 1297.

Salerni, GIOVANNI BATTISTA. Specimen orientalis ecclesiæ ab origine ad concilium nicenum primum. Ab alumnis collegii græcorum exhibitum: in quo ad usum ejusdem collegii, paucis exponitur, quæ fuerit orientalis ecclesiæ primis tribus à Christo sæculis, & quid senserit de primatu Petri, & romani episcopi. Adjecta brevi parænesi, qua Photiani orientales ad catholicam unionem sub Clemente XI. græcæ nationis amantissimo revocantur. Romæ. 1702. 8°.

Dedication copy to Pope Clement XI. Stamped in gilt on both sides of the cover are the arms of this (?) pope.

Sannazzaro, JACOPO. Sonetti e canzoni, novamente corretti, e ristampati. Venetia, appresso Ferrarii. 1543. sm. 8°. ff. 48, (3). *Vign.* 1 vol., cf., gilt, richly tooled in Grolier style.

With the autograph of T. Hepburn on the title-page.

[Saumaise (Lat. Salmastus), CLAUDE DE]. Defensio regia pro Carolo I. ad serenissimum Magnæ Britanniæ regem Carolum II. Ed. nova ab auctore aucta & recognita. N. P., *Sumptibus regis*. 1652. sm. 12°.

This book formerly belonged to William Roscoe, and on the front cover the contents are written, probably by him. On the first fly-leaf are two autographs of W. Stainforth, and a MS. note by Edward Rushton presenting the book to Mr. Sumner; on the inside of the back cover is another autograph of Rushton. The library has also two different editions of the date 1649.

Schönborn, BARTHOLOMÆUS. Oratio de studiiis astronomicis, recitata a decano collegij Philosophici, cum tribueretur testimonium doctrinæ quinquaginta tribus honestis ac doctis uiris, in Academia Vuitebergensi, die Matthiæ Apostoli, Anno 1564. Addita est Qvæstio svmta ex dicto Pauli, Rom. 8. ubi dicitur: Creaturam congemiscere & quasi

parturire, expectantem liberationem filiorum Dei, cum declaratione eiusdem dicti Paulini. Vitebergæ. 1564. sm. 8°. ff. (48).

[Scrap-book (A), containing specimens of paper-money, fac-similes, historical documents, woodcuts, portraits, and curiosities of various kinds, collected by Mr. Charles Sumner.] 4°. ff. 81.

Among the contents are the following:—

French paper money, 1730, 1791, 1792, 1793, 1795.

Hungarian paper money, 1848.

Continental money, 1776, 1778, 1779.

Confederate States money, 1864.

Confederate bond, 1864.

Ballot for Cavaignac as president of the French republic, 1848.

Admission ticket to Westminster abbey, at the queen's coronation, 1838.

Decree of the Assemblée nationale, Dec. 2, 1851, deposing Louis Napoleon.

Richmond evening whig, April 4, 1865,—the day after the entry of U. S. troops.

Russian play-bill,—King Lear.

Boston gazette, March 12, 1770, with black lines for the massacre.

List of subscribers for a monument to Washington Allston.

Receipts for slaves sold. Richmond, 1860.

Draft of an address to the people of Massachusetts, for a convention opposed to Taylor as a candidate for the presidency,—by George and Charles Sumner.

Charleston mercury, extra, Dec. 20, 1860. "Ordinance to dissolve the Union."

Engraved portraits,—Hugh Blair, countess of Blessington, Robert Bloomfield, Anne Boleyn, Bonaparte, Burns, Caesar, Carlisle, Cook, Eden, Queen Elizabeth, Gall, George IV., Grattan, earl of Hardwick, Warren Hastings, Hogarth, William and Mary Howitt, Dr Johnson, Lalande, Lamb, Lavater, Miss Mitford, Lady Morgan, Nelson, Granville Sharp, Shelley, Sir Sydney Smith, Gilbert Stuart, Wordsworth.

Pieces of bones of St. Dominic and of garment of St. Francis Assisi, in locket, with certificate from Cardinal Patrizi, etc. 1848.

Selden, JOHN. Mare clavsvm, seu De dominio maris libri duo. Primo, mare, ex iure naturæ, seu gentium, omnium hominum non esse commune, sed domini privati, seu proprietatis capax, pariter ac tellurem, esse demonstratur. Secundo, serenissimum Magnæ Britanniae regem maris circumflui, ut individuae atque perpetuae Imperii Britannici appendici, dominum esse, asseritur. Lvgdvni Batavorvm. 1636. sm. 4°. *Vign., plates, map, etc.*

Pasted on the inside of the front cover and on the inside of the first front fly-leaf is a book-plate bearing the inscription, "Ex cat. bibliothecæ Cavmarinæ." Stamped in gilt on both sides of the cover is the coat-of-arms of ?

— Table-talk: being the discourses of John Selden, Esq.; or his sence of various matters of weight and high consequence relating especially to religion and state. [1st ed. Published by Richard Milward.] London. 1689. sm. 4°. ff. (2), pp. 60.

Seneca, LUCIUS ANNÆUS. L. Annæi Senecæ opera omnia; ex ult. I. Lipsii emendatione: et M. Annæi Senecæ quæ exstant; ex And. Schotti Recens. 4 vol. Lugd. Batav., apud Elsevirios. 1600. 39-58. sm. 12°. *Port., plate and 3 vigns.* 4 vol., mor., gilt, richly tooled, and inlaid; edges gilt on marble; inside of each cover lined with figured gilt paper.

The title-page of vol. i. is engraved; the other vols. have only special title-pages; vol. iv. has the title:—"Joh. Fred. Gronovii ad L. & M. Annæos Senecas notæ."

The library has also the editions of 1628 and 1634.

Sidney, ALGERNON. Works. A new ed. [Edited by Joseph Robertson.] London. 1772. 4°. ff. (4), pp. 45, 6, 540+, 22, 56, 57, 65, 32, 33. *Port.*

Consists of the "Discourses concerning government," to which is prefixed a memoir of the author. Appended are his letters, an account of his trial, his apology in the day of his death, and a tract entitled "A general view of government in

Europe, first printed in 1744, and attributed (but in the editor's opinion erroneously) to Sidney. All these are separately pagged.

This copy was presented to Mr. Sumner by George Livermore, of Cambridge, and has his autograph on the first fly-leaf, with an extract from the will of Josiah Quincy, jr. There are also MS. notes on the fly-leaves.

Simi (Lat. Simus), NICCOLÒ. Introductio, ac summarium Totius Geographiæ, luxta Ordinem Geographorum. [Bononiæ.] 1563. sm. 8°. ff. (27).

Smith, JEREMIAH. The magistrate and the Christian, or The virtues of public and private life: exemplified in the character of Sir Thomas Abney who died 6. Feb. 1724. Introduced in a funeral sermon, preach'd on that occasion, and attended with an elegiac poem, by Isaac Watts. London. 1722. 8°.

This is a presentation copy from Dr. Watts to Mrs. Mary Abney, the wife of his friend, Sir Thomas Abney. On the first front fly-leaf he has written her name and his own initials. Pasted on the inside of the front cover is a portrait of Dr. Watts and a printed advertisement of the volume. Another portrait and two newspaper scraps are attached to the back of the first fly-leaf. On the second fly-leaf is written a description of the book, and attached to the back are three more scraps.

[**Stanislas I. (LESZCZYŃSKI), K. of Poland.** La voix libre du citoyen, ou Observations sur le gouvernement de Pologne. 2 pt. N. P. 1749. 16°.

Pasted on the inside of the front cover is a coat-of-arms surmounted by a crown. (The arms of Stanislas I. ?)

Statius, PUBLIUS PAPINIUS. Sylvarum libri quinque Thebaidos libri dvodecim Achilleidos dvo. [To which is prefixed, "Orthographia et flexvsi | ctionvm graecarvm o | mnivm apvd Stativm | cvm accentib. et ge | nerib. ex variis | vtrivsqve lin | gvæ av | torib." *Coleophon*:—] Venetiis in aedibvs | Aldi. mense Av | gvsto. M.DII. sm. 8°. ff. (296). 1 vol., maroon mor., gilt; sides tooled in Grolier style, by Murtion.

See *Brunet*, v. 512; *Graesse*, vi. 480. A printed notice is pasted on the inside of the first front fly-leaf.

Strabo. Geografia di Greco tradotta in volgare Italiano da Alfonso Bvonaccivoli, con dve copiosissime tavole l' una de' nomi Antichi & Moderni, l' altra di tutti i nomi, & cose notabili, che in questo libro si contengono. 2 pt. Venetia, etc. 1562-65. sm. 4°. *Vigns.* 1 vol., red crushed levant. "Bound by W. Pratt for H. Stevens 1872."

"On the title-page of the first part is inscribed 'Môtaigne, supposed to be the original signature of the famous essayist. See printed notice pasted on the inside of the first front fly-leaf."

Supputatio annorum mundi. N. P. N. D. sm. 8°. ff. (118).

The title-page is surrounded by an illustrated border, partially rubricated; at the bottom is written, "1552 G W G Ch Hofman."

Tacitus, CAIUS CORNELIUS. Opera quæ exstant. Ivstvs Lipsivs postremum recensuit. Additi Commentarii meliores pleniorisque, cum cvris secvndis. Accessit seorsim C. Velleivs Patercvlvs cum eiusdem Lipsi auctoribus notis. Antverpiæ. 1600. 1. 8°. 1 vol., cf., gilt, richly tooled, having some nobleman's coat-of-arms, in the centre of each cover, bearing the motto:—"Henricvs. Francisci. F. Caroli. Lothar. et. Bar. Doc. N. D. D. 1602."

The commentaries and notes of Lipsius have separate title-pages and are pagged separately. The text of Paterculus with the notes of Lipsius are wanting in this copy. On the title-page is the autograph of Andry Du Faud (?).

[**Talfourd, Sir THOMAS NOON.** Ion; a tragedy, in five acts. To which are added a few sonnets. 2d ed. London. [1836.] 8°.

"For private circulation. Not published." With the author's autograph inscription to Charles Sumner.

Tasso, TORQUATO. Di Gervusalemme conquistata. Libri XXIII. Parigi, *appresso Abel l'Angelieri*. M.D.LCXV [1595]. 12°. ff. (10), 361 [465], (1).

See *Brunet*, v. 669.

With the autograph of William Drummond, of Hawthornden, on the title-page and the last fly-leaf; in the same hand on the fourth front fly-leaf is written, "ama thi t' ama," and on the title-page, "o cipresso, o palma," and "in Londra—1610."

Thevenot, JEAN DE. Voyages en Europe, Asie & Afrique. 3^e éd. Tom. i.-iv. 4 tom. (tom. ii. paged continuously with tom. i., and iv. with iii.) Amsterdam. 1727. 12°. *Port.*, 2 *fronts.* and 34 *engrs.*

Contents: — Voyage du Levant.

On the front cover of each volume is stamped, in gilt, the coat-of-arms of "Henry. Comte. de Borcke."

Thierry, AMÉDÉE (SIMON DOMINIQUE). Rapport sur les mémoires envoyés pour concourir au prix d'histoire sur les états généraux fait au nom de la section d'histoire. Paris. 1847. 4°. pp. 67.

With the author's autograph.

Thomas Aquinas, Saint. [Summa de Articulis Fidei et Ecclesiæ Sacramentis. — Fol. 1^a: Postulat a me uestra dileccio. ut de ar | ticulis fidei et ecclesie sacramentis, etc. In fine: — Explicit summa de articulis fidei et ec | clesie sacramentis. edita a fratre tho | ma de aquino. ordinis fratrum predi | catorum. Deo. Gracias. — Moguntia. 1460?] sm. 4°. ff. 13. 34 *lines.* G. L. 1 vol., green crushed levant, lined with red morocco, richly gilt. Bound by Schaefer. Sold for 500 francs.

Probably printed by Gutenberg; see printed slip on the back of first front fly-leaf. This volume is from the library of the marquis de Morante and has his arms stamped in gilt in the centre of each side of the cover; his book-plate, stamped in gilt on green morocco, is pasted on the inside of the front fly-leaf. — See MORANTE, J. G. DE LA C., *marquis DE*. Catalogue, etc. i. & no. 36.

[Thomas (HAMERKEN, or HÄMMERLEIN, Lat. Malleolus) à Kempis.] Imitation Jésus-Christ. [Edited by L. Curmer.] Paris. [1856]. 4°. *Illuminated.*

Also with a fac-simile of the original title-page: — "IV. livres de l'imitation de Iesus-Christ qu'aucuns attribuent à Iessen d'autres à Gerson, & d'autres à Thomas à Kempis, fidèlement traduits. Nouuellement mis en François par M. R. G. A. Et reueu par le mesme auteur en ceste dernière édition, Paris. 1626."

Each book has a special title-page. The illuminations, in chromolithography by Lemercier, are taken from various MS. editions of the work.

— Appendix à l'Imitation de Jésus-Christ. Notice de M. Jules Janin sur l'Imitation de Jésus-Christ. Auteurs présumés de l'Imitation par M. l'abbé Delaunay. Histoire de l'ornementation des manuscrits par M. Ferdinand Denis. Catalogue bibliographique indiquant les manuscrits reproduits dans l'Imitation et les imprimés cités dans l'histoire de l'ornementation des manuscrits. Index des manuscrits avec l'indication des noms des dessinateurs et des chromographes. [Accompagné des figures de Iollat de Hans Sebald Beham et de Hans Holbein.] Grande danse macabre. [Edited by L. Curmer.] Paris. 1858. 4°. 4 *portrs.*, *wdcts.*, etc.

The "Notice de M. Jules Janin" is wanting.

— Le jardin des roses de la vallée des larmes, traduit du latin par J. Chenu. Paris. 1850. sm. 12°. f. (1), pp. jv., 66+. *Vign.* 1 vol., red levant, gilt, sides richly tooled and inlaid; the inside of the cover lined with red morocco, tooled, and white watered silk.

Also with an illustrated title-page.

"Il a été tiré 5 exemplaires sur papier vélin vert." This volume is from the library of the marquis de Morante and has his arms stamped in gilt in the centre of each side of the cover.

[Thomson, JAMES]. Spring. [London. 1728.] sm. 8°. pp. 50.

On the fly-leaf preceding the title-page are the following lines in the poet's hand.

"To Miss YOUNG.

"Accept, lov'd Young! this Tribute due
[To] tender Friendship, Love, and you;
[But] with it take what breath'd the whole
[O] take to thine the Poet's soul!

"If Fancy here her Power displays,
[And] if an Heart exalts these Lays;
[Tho]u fairest in that Fancy shine,
[And] all that Heart is fondly thine.

"JAMES THOMSON."

Mr. Sumner has also written a few lines in pencil on the first fly-leaf, and made a quotation from a letter by the author to Miss Young on the second.

Tommasi, or Thomai, TOMMASO. Ragionamento sopra le comete. [Bologna. 1560.] sm. 8°. ff. (8). *Vign.*

Torsellino (Lat. Tursellinus), ORAZIO. De l' historia lavretana libri cinque dal signore Bartolomeo Zvecchi da Monza fatti in lingua toscana. Milano. 1600. 8°. *Vign.* 1 vol., $\frac{1}{2}$ red crushed levant, gilt top.

The title-page is printed in black and red ink.

Trithem, or Tritthenheim (Lat. Trithemius, properly Von Heidenberg), JOHANN. Liber octo questionum ad Maximilianum Cæsarem. 1. De fide & intellectu. 2. De fide necessaria ad salutem. 3. De Miraculis infidelium. 4. De scriptura sacra. 5. De reprobis atq; maleficis. 6. De potestate maleficarum. 7. De permissione diuina. 8. De providentia dei. [Francoforti, per Cyriacum Iacobum.] 1550. sm. 8°. ff. 66+. *Vign.*

Uberti, FAZIO, or BONIFACIO DEGLI. Opera di Faccio Degliu | berti Fiorentino Chia | mato Ditta Mundi. | Vuolgare. | Cum Priuilegio. | [Colophon: —] Impresso i Venetia per Christofaro di Pensa | da mädolo Adi, iiii. setëbrio. M.CCCC.I. | 8°. ff. (267). *Vign.*

On the inside of the first fly-leaf is pasted a printed notice of the book.

See *Brunet*, ii. 1199; *Graesse*, ii. 559; *Panzer*, viii. 339. no. 21.

Vegio, MAFFEO. [Fol. 1^a tit.: Mafei Vegii dialogus inter Alithiam | et Philaliten Incipit feliciter. Prologus. — In fine. Fol. 14^b: Explicit felicit Mafei Vegei di | alogus int Alithia & Philaliten. — Coloniae. 1478.] 8°. ff. (14). 27 *lines.* G. L.

On the inside of the front cover is the book-plate of "Georgius Klotz, M.D. Francofurti ad Mœnum." — See *Hain*, no. 15928.

Vida, MARCO GIROLAMO, Bp. of Alba. Opera. Lvgdvni. 1559. sm. 8°. pp. 575. *Vign.*

Imperfect: — pp. 225, 226 are wanting.

On the covers are stamped in gilt the letters "R H." and the crest of Queen Elizabeth of England, who inherited this book from her mother, Anne Boleyn. — See MS. note on the first fly-leaf. On the second fly-leaf is written, "Josephus Glanvillius leaf. On the third fly-leaf is written, 'Iosephus Glanvillius'; hunc librum tenet ex dono Reverendissimi viri Doctoris Cousins"; on the title-page the same, abbreviated, is written; on the third fly-leaf is the autograph of S. Knight, with the following added in pencil: "archd. of Berks? d. 1746. author of lives of Colet and Erasmus?" On a back fly-leaf "Fleetwood" and two illegible words are written. There are several underlinings in ink and pencil through the book.

Views — Rome. Num. cento vedute di Roma e sue vicinanze. Roma. [18..] obl. 16°.

— *Thames river, Eng.* Views on the Thames; engraved by W. B. Cooke and George Cooke. London. 1822. f°. ff. (4). 77 *plates.*

— *Tours, Blois and Orléans, France.* Keepsake illustré de la Touraine, du Blésois & de l'Or-

léonais. Collection des beaux sites et des principales richesses archéologiques de ces trois contrées dessinés d'après nature par Deroy, A. Deroy et Tirpenne et lithographiés par Deroy, Tirpenne et Bachelier. Blois, etc., N. D. obl. 8°. f. (1). 23 *liths. and map.*

Virgilius Maro, PUBLIUS. Opera: Nic. Heins[ius] e membranarum compluribus iisque antiquissimis recensuit. Amstelodami, ex officina elzeviriana. 1676. 12°. *Map.*

The title-page is engraved.

"Tib. Claudii Donati de Virgilio Maronis vita," ff. (4-12).

— Carmina omnia perpetuo commentario ad modum Joannis Bond explicuit Fr. Dubner. Parisiis, Didot. 1858. sm. 16°. *Vign. and photogr.* 1 vol., red crushed levant, gilt, edges gilt on marble. Bound by Lortic.

The title-page is engraved; each page is surrounded by a red-line border; the photographs are from designs by J. F. Barrias.

[**Voltaire, FRANÇOIS MARIE AROUET DE**]. Historia de Carlos XII. rey de Suecia, traducida del idioma frances al español por Leonardo de Uria y Orueta. Corregida, y añadida, con las reflexiones historicas, y criticas da M. de La Motraye, en esta segunda impression. 2 vol. Madrid. 1740-41. 16°.

Several passages in both volumes have been erased with a pen, and a certificate of expurgation is written on the back of each title-page by Fr. Agustin de Dos Barrios, Caliscador.

Imperfect:—the last two leaves in the second volume are badly torn.

— Mahomet; tragédie. Représentée sur le théâtre de la comédie française. Le 9. août 1742. Bruxelles. 1742. sm. 8°. f. (1), pp. 71+.

With the author's MS. corrections, corresponding to the text as now printed.

Voragine, GIACOMO DA VARAGGIO, called JACOBUS DE, Abp. of Genoa. [Sermones de tempore.—Fol. 1^a: Incipit tabula Sermonū Jacobi [voragis] de tpe sm ordinē alphabeti. | —Fol. 10^a, col. 2, line 25: Zizama nascit ex trib' dñica v. p' | ephie. ser. 3. | deo gracias. —Fol. 11, 12 *vacant.* —Fol. 13^a tit.: Prolog'. | Sermones aurei et pulcherrimi | sātis (?) scpturaz doctrinis referti de | tempore p totu3 annū editi a solem | nissimo theologie doctore magistro | Jacobo de voragine ordis p'dicato4 | quondā episcopo Januensi feliciter | incipiunt. | Incipit prologus in sermones | de tempore Jacobi de voragine. | Humane labilis vita | etc.—Fol. 13^a, col. 2, line 4: puenire concedat. | Explicit prologus. | Incipit sermo primus de aduentu | dominica prima. | Preparare in occur | sum dei tui israhel. | Amos. iij. Quādo | etc.—*In fine* Fol. 224^b, col. 2, line 32: beatū finem p'ducat nos ille qui est | principiū et finis. qui sine fine uiuit | et regnat p infinita sclā sclō4 Amē | Finis Sermonū de tempore | magistri Jacobi de voragine. | | N. P. N. D. f. (224). 2 col. 46 lines. G. L. 1 vol., shp., rebounded, sides covered with fleurs-de-lis in plain tooling.

This edition is not mentioned by Brunet, Graesse, Hain, or Panzer. Its date may have been somewhere about 1480. In this copy, the initials are finished by hand in red and blue ink, and on the title folio are finely ornamented. On the inside of the front cover is the seal of "C. van Baviere, Facult Juris Acad. Bruxell."

Wal, GABINUS DE. Disputatio philosophico-juridica de conjunctione populorum ad pacem perpetuam. Groningae. 1808. 8°.

Appended to the Disputatio are forty theses, followed by five short poems in Dutch addressed to G. de Wal by H. de Wal, H. Heppener, Th. van Swinderen, B. H. Lulofs, and B. H. Sterniga Kuiper. The volume is concluded with a short Latin

ode "Ad Frisiam," by P. Bosscha. On the third fly-leaf is written, "Hommage au Congres de la Paix, et a l'honorable M. Elihu Burrit, de la part de M. Johan de Wal, Professeur en Droit a l'université de Leide en Hollande. Paris 22 Aout. 1849. M. Suringar." Beneath, in Mr. Sumner's handwriting, is "Charles Sumner from Elihu Burritt."

[**Waldsee-Müller (Lat. Hylacomylus), MARTIN.**] Cosmographiae | introductio | cum quibvs | dam geome | triae | ac | astrono | miae principiis ad | eam rem necessariis |. *In fine*: — Vrbs Deodate. Finitū. iiii. kl. Septē | bris Anno supra ses | quimillesimū. vij. 1507. sm. 4°. pp. (23). *Diagrs.* 1 vol., red crushed levant.

Imperfect:—sig. A (including the title-page) f. Bii (with the diagram of the zodiac), Bv, the folded "mappemonde," and all of the second part (containing the "Vespucii Naugationes") are wanting. The title and imprint are supplied from Bartlett's *Bibl. amer.* i. 29; Harrisse's *Bibl. amer. vel.*, no. 46, and from the *Catalogue of the reserved and most valuable portion of the Libri collection*, no. 15.

On the fly-leaf, Mr. Sumner has written a portion of the title, and beside the date of his acquiring it, November, 1873, he refers to a copy of this little book being in the show-cases of the British museum, and gives extracts from the descriptions of it in *Brunet*, ii. 317, and in the *Catalogue of the reserved portion of the Libri collection*, 1862, p. 8.

This fragment contains the passages which give the book its peculiar interest, wherein the proposition is first made to name the new continent after Amerigo Vespucci, *etc.*, sig. C, 1, *recto*: "Quam quia Americus inuenit Amerigen | quasi Americi terrā | siue Americam nuncupare licet." Sig. C, 3, *verso*: "Nunc vero & hec partes sunt latius lustratæ | & alia quarta pars per Americū Vesputium (ut in sequentibus audietur) inuenta est: quā non video cur quis iure vetet ab Americo inuentore sagacis ingenij viro Amerigen quasi Americi terram | siue Americam dicendam; cum & Europa & Asia a mulieribus sua sortita sint nomina."

The name, which soon appeared in books and maps attached to South America, was not extended to North America till Ortelius applied it in his great atlas, 1570.

There is some variation about the earliest issues of this book among the bibliographers. The Carter-Brown catalogue, p. 35, gives H. C. Murphy's results of collation, taking issue with Davezac in his *Martin Hylacomylus*. Harrisse, *Bibl. amer. vel.*, no. 44, gives an edition, represented in the Eyries copy in private hands in Lyons, and in a fragment in the Mazarin library, but he "failed to secure a collation." All agree there were two editions in 1507, differing in arrangement and showing by their colophons that they were issued respectively in May and September of that year.

The May issue is Harrisse, no. 45; Carter-Brown, no. 28; Brunet, ii. 317; Ternaux, no. 10; and there are copies in the Lenox, H. C. Murphy, and Carter-Brown libraries. The folding map of the skeleton globe in this edition has on the reverse a description in twelve lines of roman type.

The September issue has this description on the map in fifteen lines. It is Harrisse, no. 46; Carter-Brown, no. 29, and there are copies in the Lenox and Carter-Brown libraries, in that of Charles Deane, and the present fragment in Harvard college library, which has a few MS. notes in an ancient hand. The Carter-Brown copy was Ternaux's.

The Lenox library has also an edition with the same date, but varying slightly otherwise, which is described in Harrisse, no. 47, who, however, considers it as made up of two editions, his nos. 44 and 46.

In 1509, another edition in black-letter was issued at Strasburg by the printer John Grüniger, as stated in the colophon, and this is Harrisse, no. 60; Carter-Brown, no. 40; Ternaux, no. 14; Brunet, ii. 319; and there are copies in the Lenox, S. L. M. Barlow, Carter-Brown, Congress (Force collection) and Harvard college libraries. The latter copy was received from Obadiah Rich in 1830, and has the inscription on the back of the map in black-letter, fourteen lines. Harrisse says, some copies have it in fifteen. The text of this edition was followed by Navarrete, in his *Coleccion de los viages*, iii. 183, 190, with Spanish translation and notes.

The Lenox and Barlow libraries have also an edition, printed at Lyons, 1510, which is Harrisse, no. 63.

The author of the *Introductio* was professor in the college at St. Dié, but the account following that portion was Vespucci's own narrative of his several voyages, written Sept. 4, 1504, after his return from his last one and rendered into Latin. See accounts of Waldsee-Müller in Lelewel's *Moyen Age*, p. 142; and Davezac's *Martin Hylacomylus*.

This Latin version of Vespucci's narrative was repeated in the *Nouus orbis* of Gryngius, Basle, 1532; in De Bry, in an abridged form, and in other of the general collections of voyages of that century. The story, in Italian, was published in Italy not long after (1516?) as *Lettera di Amerigo Vespucci*, and this has been reprinted in Bandini's *Vita e lettere di Amerigo Vespucci*, Florence, 1745 (in Harvard college library, —also a German

translation, 1748), and in Canovai's *Viaggi d' America Vesputici*, 1817. Ransius only gives the third and fourth voyages. Varnhagen in his work on Vespucci, Lima, 1865, would seem to have followed, perhaps, the original Italian as given out by Vespucci himself. In this narrative, we have as far as known the only accounts of the first and fourth voyages. The texts of these various publications vary somewhat, and Harriase, *Bib. amer. vet.*, p. 6, collates them on certain points. Of the second and third voyages we have earlier accounts;—of the second (1497-1500) that in Bandini, from a MS. in the Riccardiana library which is supposed to have been written by Vespucci himself in July, 1500, and of the third (1501) the narrative published by Bartolozzi, in 1789, in his *Ricerche storico-critiche* (in Harvard college library) which is thought to be the communication Vespucci made about it to Lorenzo de Medici. In 1504, the navigator himself published an extended narrative of this third voyage, addressed to the same patron, which is now usually known as the *Mundus novus*, and is of interest, as from it he gained the credit of having been the first to discover the main land of America, though Pinzon and Cabral had been before him on this same coast of Brazil. There were various issues of this *Mundus novus* in Latin (one of which, Harriase's, no. 29, is in Harvard college library), Dutch and German within the next four or five years, and Harriase, the Carter-Brown catalogue, and Muller's catalogues, show them. Of the third voyage, there was still another account by Vespucci, varying a little, and it is given in Ramusio and in other places, enumerated in Harriase, p. 63, and see p. 64, note 102, for other references. Baldelli in his *Il milione di Marco Polo*, 1827, published still another letter addressed to Lorenzo de Medici.

[Walpole, HORATIO or HORACE, 4th earl of Orford]. The castle of Otranto, a Gothic story. Translated by William Marshal, from the original Italian of Onuphrio Muralto. 6th ed. Parma, printed by Bodoni, for J. Edwards, London. 1791. 80. *Front. Large paper.*

500 copies printed.

A copy of this edition has been sold for £29 8s.

Watts, WILLIAM. The seats of the nobility and gentry, in England and Scotland, being a collection of the most interesting and picturesque views, engraved by W. Watts, from drawings by the most eminent artists, with descriptions of each view. London. [1779-86.] 4°. *Front.* and 83 *engrs.*

Wels, J. M. Représentation des fêtes données par la ville de Strasbourg pour la convalescence du roi [Louis XV.]; à l'arrivée et pendant le séjour de Sa Majesté en cette ville. [To which is appended "Description des fêtes," etc.] Paris. [1745?] f°. f. (1), 12 *plates* and pp. 20.

The title-page is engraved.

[Wellesley, RICHARD COLLEY, *Marquis Wellesley*]. Primitiæ et reliquiæ. [Poems in Greek, Latin, and English, composed 1776-1840.] Londini, *Gulielmi Nicol.* 1840. 8°. ff. (3), pp. 58, f. (1), pp. 19.

See Allibone's *Crit. dict.*, iii. 2638.

Pasted on the eighth fly-leaf is a sheet of paper cut to the same size, on which is written, "To the Lord Viscount Morpeth &c &c with the respects of his faithful servant Wellesley;" and below this is written, "Extorted from me by my feeling of friendship for Charles Sumner. Morpeth. April 1840."

Welwood, JAMES. Memoirs of the most material transactions in England, for the last hundred years, preceding the revolution in 1688. 6th ed. corrected. [With an appendix.] London. 1718. 12°.

At the top of the title-page is the autograph of W. Wordsworth; the name Sam'l Threlkeld is written twice on the title-page.

Wilkes, JOHN. [A collection of engravings, woodcuts, portraits, caricatures, autograph letters, book-plates, fac-similes, colored prints, facetiæ, newspaper-cuttings, scraps, etc. relating to John Wilkes and his political career. f°. ff. (1), 56.

Fol. 1 has the autograph "John Dillon, 1865."

The most important of the contents appear on the following pages:—

1. A large mezzotint engraving, representing Wilkes, Sergeant Glyn, and Horne (Tooke) sitting at a table, by Richard Houston, London, 1766.
2. Portrait of Wilkes from *Lady's magazine*. His autograph and arms.
3. Engraved view of his cottage in the Isle of Wight.
4. An autograph letter, addressed "Dear Dele," Feb. 25, 1758. "I could not force my conscience so far as to vote for annual parliaments; so we shall all be a black list perhaps, and sung down in a merry ballad."
5. Portrait, engraved by Caroline Watson, after Pine, 1763. Autograph letter, May 1, 1784, to Mr. Paice, conveying his, Wilkes's, will to him, to be cared for while his, Wilkes's, daughter is on a visit to Paris.
6. A contemporary manuscript referring to Wilkes's famous "no. 45," endorsed in the following way: "It is a curious coincidence that Wilkes's name and the offices he was successively elected to fill was composed of 45 letters, as will be seen in the following lines.

The Right Honourable John Wilkes, lord mayor of London.

John Wilkes, esquire, sheriff for London and Middlesex.

John Wilkes, esquire, knight of the shire for Middlesex.

John Wilkes, esquire, alderman for Farringdon without.

John Wilkes, esquire, chamberlain of the city of London."

8. Verses in Wilkes's hand, certified by Dawson Turner, as "one of those seized in Mr. Wilkes's house, by virtue of a general warrant": indorsed with the autographs of those serving the warrant.

"Ille crucem sceleris pretium tulit, hic diadema."

Journal.
"Ayliffe and Fox, when called, in days of old

Alike their toils: ah, why unlike their fate?

One villain hangs, the other robs the state.

With ermin'd pride his father's livery lines

Power sprung from lust with boundless wealth combines,

And like to *Bute* in all a first-rate patriot shines.

"The grand conductor of Corruption shines,
And for his brother *Bute*, another halter twines."

10. Britannia's intercession for the deliverance of John Wilkes, esquire. London. [1768.]

- 14, etc. Speeches of Wilkes, cut from magazines and printed on broadsides.

15. Mezzotint portrait of Wilkes.

16. Caricature drawing of Wilkes, with etching of the same.

17. Charles Mathews's personation of Wilkes as chamberlain of London, with autograph of Wilkes as such.

- 18, etc. Newspaper clippings relative to Wilkes's political contests.

37. Large mezzotint portrait of Benjamin Hopkins, chamberlain of London, 1776, — Wilkes's opponent.

41. Engraved caricatures of the contest.

- 42, etc. Contemporary broadsides, burlesques of Wilkes and his contest.

50. Engraved likeness of Charles Townshend.

51. Autograph letter of Charles Townshend (?)

52. Autograph letter of Miss Wilkes to Joseph Paice.

53. Engraved portrait of Charles Churchill, with autograph letter by him, addressed to "Mr Kearsly in Ludgate Street," and endorsed by Dawson Turner, as "seized in Mr. Wilkes's house at the time of the prosecution against him. The signature, 'J. Watson,' is that of the officer who seized it." The letter reads thus:—

SIR, — Mr. Wilkes and I are now together, and concerning the N. B. are come to this determination. We have provided a printer, who is to send us the papers in such time that you may have them on Friday at 2 o'clock, and we should be glad to know for a certainty whether you will chuse to continue as the Publisher, which will be entirely agreeable to us, if it is to you.

I should be glad you would let us know how many you usually print off, and what is the expense of Paper and Printing, so that we may be better Judges in what manner to fix the terms with the Printer. An answer to this left at Mr. Wilkes's any time tonight will oblige

Your very humble serv^t

CHARLES CHURCHILL.

SATURDAY NOON.

We must have tonight.

Winokler, NICOLAUS. Tractatus de astrologia, et omnium artium principii, et differentii divinationum, contra Anonymos quosdam, qui nullas in Astris causas esse contendunt. Francoforti ad Mœnum. 1580. sm. 8°. ff. (30). *Vign.*

Library of Harvard University.

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 7.



THE DANTE COLLECTIONS IN THE HARVARD COLLEGE
AND BOSTON PUBLIC LIBRARIES.

PART I.

By WILLIAM COOLIDGE LANE.

REPUBLISHED FROM THE BULLETIN OF HARVARD UNIVERSITY.

CAMBRIDGE, MASS.:
UNIVERSITY PRESS: JOHN WILSON AND SON.

1885.

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
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5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
7. WILLIAM C. LANE. The Dante Collections in the Harvard College and Boston Public Libraries.
8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
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THE DANTE COLLECTIONS

IN THE

HARVARD COLLEGE AND BOSTON PUBLIC LIBRARIES.

BY

WILLIAM COOLIDGE LANE,
Catalogue Department, Harvard College Library.

*. BPL. (followed by a shelf-mark) stands for Boston Public Library. Additional titles are given from the private collections of Professor Charles Eliot Norton, and the late Professor George Ticknor, which are indicated respectively by N. and T. All other marks designate books in the College Library, of which those beginning with Dn. indicate the books of a special Dante collection.

Care has been taken to give full information in regard to the contents and distinguishing characteristics of each edition of Dante, and to describe the various portraits of Dante as fully as possible. The number of pages is given only for the older books, and for modern books when less than a hundred.

I.

DANTE'S WORKS.

Divina Commedia.

(Including editions of separate parts of the poem, and complete editions of Dante's works.)

MANUSCRIPTS.

1. — [L'inferno e il purgatorio di Dante, ending with canto xxi. v. 63 of the Purgatorio. Manuscript on paper of the 15th century.] f. ff. 108. Dn. 1.1

This manuscript was formerly in the possession of Baron Seymour Kirkup and is described by Colomb de Batines (ii. 104). It was bought at the sale of his library in 1871 by Ellis & White for £20, and was purchased for this library by the Dante society for £25. It has Latin annotations in the margin which Colomb de Batines considers to be in the same hand as those in the codex laurenziana, Plut. xi. no. ii. From an inscription in the end it appears to have belonged to the Grimaldi family of Genoa.

2. — [L'inferno e il paradiso di Dante, col commento detto il Falso Boccaccio. At end:] Scriptū per me bartolomeum filium andree maçonis deluce. — Sub annis dñi Mille cccc^ol. vij. [1457]. Deo Gratias Amō. f. ff. 158. (N.)

A beautiful ms. on paper written in large Gothic letters, with marginal notes to the first fourteen cantos of each cantica in smaller character taken from the comment known as the "Falso Boccaccio." Each canto begins with a title and argument in red and an ornamental initial. A large and elaborate initial begins the Inferno. On the verso of the last leaf

stand the two epitaphs on Dante beginning "Inclita fama" and "Jura monarchiae." This ms. belonged to Baron Kirkup and is described by Colomb de Batines, ii. 103.

Laid in this volume is a single sheet of vellum containing lines 64-135 of canto xxiv. of the Inferno, "che certo è della prima metà del sec. xiv., e scritta in carattere tondo tanto bello e nitido da far quasi credere che sia un fac-simile. Se questo codice tuttavia esiste, io lo direi uno de' più antichi, e de' più notabili quanto alla calligrafia." — ii. 104.

3. — El inferno del Dñte. Canto quinto, séptimo. [En verso castellano.] f. pp. 8. (BPL. No. 7 in **D. 3)

EDITIONS OF THE ITALIAN TEXT.*

(Arranged chronologically.)

4. — [La divina commedia col commento di BENVENUTO DA IMOLA e colla vita di questo poeta scritta da Giovanni Boccaccio. Venezia, Vendelin da Spira. 1477.] f. ff. (873). Dn. 14.77

There is no title page. The outer column on each side of the first leaf, and the whole of the last page are filled in in ms. The first page bears the stamp "Ex Bibl. Jos. Ren Card. Imperialis."

* Complete works, nos. 29, 65.

Divina commedia and Lyric poems, no. 53.

Inferno, nos. 49, 59, 71, 77, 83, 92, 111, 113; the same, with translation, 133, 139, 143, 154, 158, 193, 195, 224; the same, in part, 104, 107.

Purgatorio, with translation, nos. 137, 146, 189.

Paradiso, with translation, no. 131.

Selections, nos. 122-127.

The work ends with "Capitoli" in verse by Busone da Gobbio and by Jacopo Alighieri, the Credo of Dante, and a colophon in verse giving the name of commentator, editor, and publisher, with the date.

The first fifteen leaves containing the Life by Boccaccio are often wanting. The commentary has been also ascribed to Jacopo della Lana. If by Benvenuto, it must be a translation, as the original, still unpublished, is in Latin.

"Edizione accuratissima per l'esecuzione tipografica. Assai rara." — Colomb de Batines, i. 23. See also Hain, *Rep. bibliog.* no. 5942.

5. — Comento di CHRISTOPHORO LANDINO fiorentino sopra la Comedia di Danthe Alighieri poeta fiorentino. [*Colophon* :] Impresso in Firenze per Nicholo di Lorenzo della Magna a di .xxx. dagosto .m.cccc.lxxxii. [1481]. f. ff. (372). 2 *engrav.* (N. T.)

The first Florentine edition. The first fourteen leaves (of which the first and last are blank) contain various introductory matters, which will be found also in the editions of 1491, 1493, 1497, 1507, 1529, 1564, 1673 [nos. 6, 7, 8, 12, 15, 19, 22], as well as in other editions not included in this catalogue.

The two engravings (by Baccio Baldini from designs by Botticelli) are at the beginning of the first two cantos of the Inferno. Space is left for an illustration at the beginning of each canto and some copies of this edition have as many as nineteen, twenty, or twenty-one inserted, but none have more than this. The first cantos of the Inferno and Purgatorio of Professor Norton's copy have each an elaborate illuminated initial: that of the Inferno contains a portrait of Dante, and in the ornament on the margin is the golden shield of the Medici bearing the seven balls of Piero de' Medici. As he died in 1469 the copy probably belonged to one of his children, previous to the change made by Lorenzo de' Medici in the number of the balls. Colomb de Batines gives a careful bibliographical description (i. 36-46) and mentions all the copies of note known to him.

Prof. Norton's copy is bound in three volumes, that in Mr. Ticknor's library is bound in one volume.

6. — [La divina commedia; col comento di CRISTOFORO LANDINO. *At end* :] Finita e lopa delinclyto & diuo dâthe alleghieri poeta fiorêtino reuista & emêdata diligetemête p el reuerêdo maestro Piero da figio: & ha posto molte cose i diuersi luoghi che ha trouato mâcare i tutti edâti liqli sono stati stâpadi excepto qsti Impressi i uenesia p Bernardino benali & Matthio da parma del. mcccc.lxxxii. adi. iii. marzo [1491]. f. ff. cclxxxxii. *Wdts.* Dn. 14.91

Ten unnumbered leaves of introductory matter at the beginning and one leaf at end are wanting. Differs slightly from the descriptions of this edition given in Colomb de Batines, i. 52, and in Hain, *Rep. bibliog.* no. 5940.

The Credo, Pater nostro, and Ave Maria of Dante follow the colophon.

The edition contains three full-page wood-cuts and many curious smaller ones, found also in the editions of 1493, 1507 and 1529 [nos. 7, 12, 15]. In the edition of 1497 (and probably in others) the same designs appear, but on a larger scale and engraved with finer execution. They are reproduced in the 3 vol. edition published in Milan in 1864-66 [no. 101].

7. — Danthe alegieri fiorentino. [With the comment of CHRISTOPHORO LANDINO. *At end* :] Finita e lopa dellinclyto & diuo Dâthe alleghieri poeta fiorêtino reuista & emêdata diligetemête p el reuerêdo maestro Piero da Figino & ha posto molte cose i diuersi luoghi che ha trouato mâcare si i lo texto cõe nella giosa. Impressa in Venetia per Matheo di chodecha da parma. Del. mcccc.lxxxiii. Adi. xxix. de Novembre [1493]. f. (10), ccxcix. [300], (1) = 311. f. *Wdts.* (N.)

Imperfect: f. 1 with its full-page wood-cut is wanting, the larger part of f. 2 and a portion of the last leaf are also missing, and several other leaves are imperfect. The whole number of pages should be 311, not 310 as stated by Colomb de Batines, and as would seem to be the case from the paging. It should be noted that sig. x has but 7 leaves. At the beginning of each of the three parts is a full-page wood-cut, and smaller ones at the head of each canto, like those in the edition of 1491.

The first ten leaves contain the introductory matter common to several editions of this period, and the Credo, Pater nostro and Ave Maria of Dante follow at the end of the Paradiso.

8. — Danthe alighieri fiorentino. [*At end* :] Fine del comento di CHRISTOPHORO LANDINO Fiorentino sopra la Comedia di Dâthe reuista & emendata diligetamête per el reuerêdo maestro Piero da Figino & ha posto molte cose in diuersi luoghi che ha trouato mâcare si i lo texto come nella giosa. Impressa in Venetia per Pietro de zuanne di quarengi da palazago bergamesco. Del. m.cccc.lxxxvii. A di. xi. ottobre [1497]. f. ff. (10), ccxcvii. (1). *Wdts.* (N.)

At the beginning of the Inferno is a full-page wood-cut, and smaller ones stand at the head of each canto. They are the same in design as those of the editions of 1491, 1493, etc. but on a larger scale and engraved with finer execution. The first ten leaves contain prolegomena like the earlier editions. At the end of the Paradiso are given the Credo, the Pater nostro and the Ave Maria of Dante.

9. — Le terze rime di Dante. [*Colophon* :] Venetiis in aedib. Aldi. accvratissime. Men. avg. mdi. [1502]. sm. 8°. ff. (244). (N.)

The first edition of Dante of small size. All the editions of the fifteenth century had been folios. This contains neither preface nor notes. On the verso of the last leaf is the familiar emblem of the anchor and dolphin used here and in an edition of Sedulius published in the same year, for the first time. Some copies of this edition have no anchor, from which Renouard concludes that Aldus did not have the block at hand when he began to print the volume. See Colomb de Batines, i. 60. Renouard, *Annales des Aides*, i. 61, 61; Firmin-Didot, *Aides Manuce*, p. 210.

10. — Commedia, insieme con vno dialogo circa el sito forma et misvre dello inferno [di Antonio Manetti]. [*Colophon* :] Impresso in Firenze per opera & spesa di Philipppo di Giunta Fiorentino gli anni della salutifera incarnatione .m.dvi. a di .xx. dAgosto [1506]. sm. 8°. 7 *wdts.* Dn. 25.6

Preceded by "Cantico di Hieronymo Beniniensi cittadino fiorentino in laude dello eccellentissimo Poeta Dante Alighieri, et della sequente commedia da lui diuinamente composta," in terza rima.

"Edizione accreditatissima e rarissima. Il testo fu dal signor Viviani (Ediz. di Udine) giudicato eccellente e pieno di molto belle lezioni e si trovano concordare col codice bartoliniano." — Colomb de Batines, i. 64.

This copy has the book-plate of "le comte D. Bontourlin" and the autograph of "Seymour Stocker Kirkup."

11. — Dante col sito, et forma dell' inferno. [Toscolano. circa. 1506?] sm. 8°. *Wdts.* and 3 *diagrs.* Dn. 25.6.2

On the last page is the following:—"P. Alex. Pag[an]iaus. Benacensis. F. Bena. V. V." The last part is thought to mean "Fecit Benacenses, viva, viva," and to record the establishment of their office in Toscolano. "Leggiadra edizione e poco comune." — Colomb de Batines, i. 69.

12. — Danthe alighieri Fiorentino historiado. Cum gratia & priuilegio. [*At end* :] Fine del comêto di CHRISTOPHORO LANDINO Fiorentino reuista & emêdata diligetemête p el reuerêdo maestro Piero da Figio & ha posto molte cose i diuersi luoghi che ha trouato mâcare si i lo texto cõe nella giosa. Impressa in Venetia per Bartholomeo de Zanni da Portese. Del. m.d.vii. A di. xvii. de Zugno [1507]. f. ff. (10), ccxcviii. *Wdts.* (N.)

The wood-cuts are a full-page cut at the beginning of the Inferno, and small ones at the head of each canto. The first ten unnumbered leaves and the recto of f. 1 contain the prolegomena of the edition of 1481. At the end of the Paradiso follow the Credo, Pater nostro and Ave Maria as in the other editions mentioned above, but in this case the colophon stands

after these, instead of between them and the poem as in earlier editions.

"Questa edizione, ch' è ristampa di quella del 1497, ha questo di singolare, che essa contiene il testo dell' Aldina con note le quali non vi corrispondono. È piuttosto rara. — Colomb de Batines, I. 68.

13. — Dante col sito, et forma dell' inferno tratta dalla istessa descrizione del poeta. [*Colophon*:] Impresso in Vinegia nelle case d' Aldo & d' Andrea di Asola suo suocero nell' anno M.D.XV. Del mese di Agosto [1515]. sm. 8°. ff. (2), 244, (4). 3 *diagrs.* (N.)

Reprint, page by page, of the Aldine edition of 1502 and of the undated Paganino edition of 1504.

The first two leaves contain a dedication. "Alla valorosa madonna Vittoria Colonna Marchesana di Pescara," and the Aldine anchor is found on the first and third leaves, and on the recto of the last leaf.

14. — Oper'e del divino poeta Danthe con svolamenti: correcti et con ogni diligentia novamente in littera cursive impresses. In Bibliotheca S. Bernardini. [*At end*:] Fine del commento di CHRISTOFORO LANDINO Fiorëtino sopra la comedia di Danthe, reuista & emendata diligetemente per el reuerendo maestro Pietro da Fignio & ha posto molte cose in diuersi luoghi che ha truouato mancare sì in lo texto come nella giosa etiam nouiter per altri eccellenti huomini. Impressa in Venetia per Miser Bernardino stagnino da Trino de monferra. Del. MCCCC.XX. A di xxviii. Marzo [1520]. 4°. ff. (12), 441 [440]. *Wdts.* (N.)

The wood-cuts are a full-page cut at the beginning of the Inferno, small ones at the head of each canto (all different from the cuts in the earlier editions mentioned above), a vignette of St. Bernard and a wood-cut of Adam and Eve on the title-page, the latter being repeated on the first page of the Inferno.

"Edizione rara e molto stimata." — Colomb de Batines, I. 78.

15. — Comedia: cõ l' esposizione di CHRISTOFORO LANDINO: nuouamete impressa: e con somma diligentia reuista & emedata. MDXIX. [*Colophon*:] Stäpato in Venetia per Iacob del Burgofräco. Nellanno del nostro signor .M.D.XXIX. A di .XXIII. di Genaro [1529]. f. ff. (12), CCXCV. *Port.* and *wdts.* Dn. 15.29

The title is inclosed in an illustrated border. The text is a reproduction, with but few variations, of the Aldine edition of 1502. The eleven leaves following the title-page contain the introductory matters of the edition of 1481 and following editions, and the Credo, Pater nostro, and Ave Maria follow the Paradiso. The wood-cuts are a portrait on the reverse of the title-page, large cuts at the beginning of each cantica (that at the beginning of the Inferno having an ornamental border) and smaller ones at the head of each canto. They are the same as in the edition of 1491 and others.

"Edizione difficile a trovarsi." — Colomb de Batines, I. 79.

16. — Comedia del divino poeta Danthe Alighieri, con la dotta & leggiadra spositione di CHRISTOFORO LANDINO: con somma diligentia & accuratissimo studio nuouamente correctta, & emendata: . . . Aggiuntavi di nrovo vna copiosissima Tauola. In Vinegia, [per M. Bernardino Stagnino]. 1536. 4°. *Vign.* of Dante, and *wdts.* Dn. 25.36 (BPL. *4792.4)

"With the exception of the Title and the 'Tavola,' this is a page for page reprint of the editions of 1512 and 1520. The illustrations are the same (except that the vignette and engraved ornamental frame work of the first page of the Inferno are omitted). The differences in the text, such as there are, or, at least, such as I have noted, are only of orthography." — C. E. N.

17. — La comedia di Dante Alighieri con la nova esposizione di ALESSANDRO VELLUTELLO. [*Colophon*:] Impressa in Vinegia per Francesco

Marcolini ad instantia di Alessandro Vellutello del mese di Gugno lanno MDXLIII [1544]. 4°. *Wdts.* (N. T.)

The first 26 leaves contain the dedication to Pope Paul III., an address to the reader, "Vita e costumi del poeta," and "Descrittione de lo inferno" with ten cuts.

This is the first edition with Vellutello's comment.

The wood-cuts are three full-page cuts at the beginning of each part of the poem, and smaller cuts, one for each canto. They are entirely different from those published in earlier editions with Landino's comment.

18. — Il Dante, Con argomenti, & dechiartione de molti luoghi, nouamente reuisto, & stampato. In Lione, per Giovan di Toernes. 1547. 16°. *Vign.* of Dante. Dn. 25.47

"Dee il suo principale ed unico pregio alla picciolezza de' caratteri ed alla leggiadria della stampa." — Gamba, *Serie dei testi*, p. 125.

19. — Dante, con lesposizione di CHRISTOFORO LANDINO, et di ALESSANDRO VELLUTELLO. Con tauole, argomenti, & allegorie, & riformato, riueduto, & ridotto alla sua uera lettura, per Francesco Sansovino. Venetia, appresso Giouambattista, Marchio Sessa, & fratelli. 1564. f. *Port.* and *wdts.* (N.)

The colophon reads, "Appresso Domenico Nicolino. Per Giouambattista, etc."

Contains all of the usual introductory matter of the editions of Landino and Vellutello, with the wood-cuts of Vellutello's edition of 1544 [no. 17]. The text follows the Aldine edition of 1502 with a more modern orthography.

Porträt: — On the title-page, enclosed in a highly ornamented border; the same as that in the edition of 1578 [no. 23].

20. — Dante con l' esposizione di M. BERNARDINO DANIELLO DA LVCCA, Sopra la sua Comedia dell' Inferno, del Purgatorio, & del Paradiso; nuouamente stampato, & posto in luce. Venetia, appresso Pietro da Fino. 1568. 4°. 8 *plates*, and *vigns.* Dn. 25.68

The only edition of Daniello's Comment published, and valued on that account. Fourteen verses are by mistake omitted in the sixth canto of the Purgatorio. The comment has been attributed to *Gabriele Trifone*, but without good reason.

21. — La divina comedia, di nrovo alla sua uera lettione ridotta con lo aiuto di molti antichissimi esemplari. Con argomenti, & allegorie per ciascun canto, & apostille nel margine. Et indice copiosissimo di vocaboli più importanti, con la spositione loro. [Edited by Lodovico Dolce.] Vinegia, appresso Domenico Farri. 1569. 24°. Dn. 25.69

"Vita descritta da M. Lodovico Dolce." pp. vii-ix.

"Edizione eseguita sopra quella del Giolito, 1555, e col medesimo numero di facce." — Colomb de Batines, I. 94.

22. — Dante con l' esposizioni di CHRISTOFORO LANDINO, et d' ALESSANDRO VELLUTELLO. Con tauole, argomenti, etc., per Francesco Sansovino. Venetia, appresso Giouambattista, Marchio Sessa, & fratelli. 1578. f. *Port.* and *wdts.* (N.)

The colophon reads "Appresso gli Heredi di Francesco Rampazetto. Ad instantia di Giouambattista, etc."

This is a reprint, almost in fac-simile, of the edition of 1564. The dedication is different and the headings of the introductory matter vary, but otherwise the correspondence is very close.

23. — La divina commedia ridotta a miglior lezione dagli ACCADEMICI DELLA CRUSCA. Con privilegio. In Firenze, per Domenico Manzani. 1595. 16°. *Vigns.* and *ornamental initials.* (N.)

"Edizione reputatissima, dovuta alle cure di vari accademici [della Crusca], i quali si attengono all' Aldina del 1502, consultando nel tempo stesso più di 100 codicelli di grande reputazione, di cui 82 se ne citano nell' Avviso al lettore. . . . Caduta disgraziatamente in mano di stampatore neglettissimo, riuscì zeppa d'errori. . . ." — Colomb de Batines, I. 98.

24. — La divina commedia ridotta a miglior lezione dagli ACCADEMICI DELLA CRUSCA, seconda impressione accresciuta degli argomenti, allegorie, e spiega de' vocaboli oscuri. Dedicata al dottor Tommaso Farina [by Cellenio Zaccatori, i. e. Lorenzo Ciccarelli]. 1 vol. in 2. Napoli, *Francesco Laino*. 1716. 16°. Dn. 27.16
- "Comunemente giudicata più corretta di quella del 1695. Gli argomenti e le allegorie sono copiati dall' edizione del Giolito, 1555." — *Colomb de Batines*, i. 103.
25. — La divina commedia, già ridotta a miglior lezione dagli Accademici della Crusca; ed ora accresciuta di un doppio rimario [da Carlo Noci], e di tre indici per opere del sig. G. A. VOLPI. 3 vol. Padova, *Giuseppe Comino*. 1727, '26-27. sm. 8°. *Port. and plate.*

(T. BPL. 4790.48)

Contents: — Vol. i. contains (besides the text of the Divina commedia) the following:—

Le vite di Dante e del Petrarca, da Lionardo Aretino. — Principio d' un capitolo del abate A. M. Salvini al sig. F. Redi. — Catalogo di molte delle principali edizioni che sono state fatte della Div. com. — Sonetto del conte G. N. A. Montanari al Volpi, e Sonetto del Volpi in risposta. — [Lettera di B. de' Rossi a L. Torrigiani.] — Opinione intorno al tempo del viaggio di Dante. — Autorità de' testi.

ii. Rimario di tutte le desinenze de' versi della Divina commedia, opera già pubblicata in 1602 da C. Noci, ed ora migliorata [da Volpi]. — Indice delle sole desinenze de' versi della Divina commedia.

iii. Argomenti e le allegorie sopra ogni canto del poema di Dante, e tre indici composti dal Volpi.

This edition, at the time of its publication, was generally thought to excel all previous editions, and has been frequently republished. It follows the 1695 edition [no. 23], the text of which it reproduces in a corrected form. See *Colomb de Batines*, i. 104.

Portrait: — "Disegnato da M. A. Cornali e inciso dall' Heylbrouck, copia di quello di Bernardo India, celebre pittor veronese, che si conservava nel museo di Bernardino Lisca."

— See no. 233. Della commedia trasportata in verso latino da CARLO D' AQUINO. *Ital. and Lat.* 1728.

26. — Dante con una breve e sufficiente dichiarazione del senso letterale diversa in più luoghi da quella degli antichi comentatori. By POMPEO VENTURI. Edited by G. B. Placidi. 3 vol. Lucca, per S. D. Cappuri, a spese della società [di Gesù]. 1732. 8°. Dn. 27.32
- "Prima edizione col commento del padre Venturi. È divenuta assai rara." — *Colomb de Batines*, i. 106.
- Vol. ii. and iii. have only a half-title.

27. — La divina commedia, con gli argomenti, allegorie e dichiarazioni di LODOVICO DOLCE. Aggiuntovi la vita del poeta, il Rimario e due indici utilissimi. Bergamo, *Pietro Lancellotti*. 1752. 12°. (T.)

Edited by the abate, P. A. Serassi. The text follows that of the editions of 1695 and 1727 [no. 23 and 25], revised from a ms. in the possession of Mgr. Albani of Bergamo.

28. — La divina comedia dell' inferno, poemetto morale, e filosofico; colle annotazioni distinte, ch' esplicano chiaramente il testo. Da NICOLÒ CIANGULO. Lipsia, *apresso Giovanni Samuel Heinsio heredi*. 1755. sm. 8°. Dn. 27.55
- "È la prima edizione stampata in Germania." — *Scartazzini*, *Dante in Germania*, ii. 184.

29. — La divina commedia con varie annotazioni, e copiosi rami adornata. Dedicata alla sagra imperial maestà di Elisabetta Petrowna, dal conte CRISTOFORO ZAPATA DI CISNEROS. Tom. i.-iii.; — Prose, e rime liriche, con copiose ed erudite aggiunte. Tom. iv. in 2 pt. 4 tom. in 5. Venezia, *Antonio Zatta*. 1757-58. 4°. 112 plates. Dn. 17.57 (T. BPL. 4801.50)

"È questa edizione fatta con lusso, ma con poco buon gusto nella scelta degli ornamenti, vignette, fregi e figure. In fine d' ogni canto porta le Annotazioni del Venturi e del Volpi." — *Gamba*, *Serie dei testi di lingua*, p. 128.

"Memorie per servire alla vita di Dante," iv. (2), 1-140.

"Lettera di Gius. Valeriano cav. Vannetti intorno ad alcune circostanze della vita di Dante, ed all' aver egli dimorato nella Val Lagarina, e quindi composta una sua canzone." iv. (2), 141-188.

The text is, with few exceptions, that of the edition of Padova, 1727.

Portrait: — "Tratto da un antico originale, che trovassi nella Toscana." Name of engraver not given. Paur thinks it to be possibly the foundation of Morghen's famous portrait so often reproduced. Another plate gives a number of medals bearing Dante's profile.

— See no. 188. La divine comédie, l'enfer. PAR MOUTONNET DE CLAIRFONS. *Ital. and French*. 1776.

30. — [La divina commedia, pubblicata da ANDREA RUBBI.] 3 vol. Venezia, *presso Antonio Zatta e figli*. 1784. 16°. *Port. and vigns.* (Parnaso italiano, iii.-v.) (BPL. 2769.2)

Volpi's Indici from the edition of 1726-27 are printed at the end of each volume. In vol. iii. are "Notizie storiche e critiche," and "Paragone di Dante col Buonarroti," pp. 218-223.

At the head of each canto is a vignette engraved by C. dell'Acqua and others.

Portrait: — A vignette on the title-page of each volume.

— See no. 193. L'enfer [par ANTOINE RIVAROLI, dit COMTE DE RIVAROL]. *Ital. and French*. 1785.

31. — Inferno, poema. Parigi, C. A. J. Jacob. 1787. 24°. Dn. 27.87

32. — Purgatorio, poema. Parigi, C. A. J. Jacob. 1787. 24°. Dn. 27.87.2

33. — Paradiso, poema. Parigi, C. A. J. Jacob. 1787. 24°. Dn. 27.87.3

34. — La divina commedia novamente corretta spiegata e difesa da F. B. L. M. C. [FR. BALDASSARE LOMBARDI minor conventuale.] 3 vol. Roma, *presso Antonio Felgoni*. 1791. 4°. 3 plates, and vigns. Dn. 17.91

"Vita scritta dall' abate P. A. Serassi." 1. xvii.-xxiii.

"Dello stile di Dante. Elogio di F. R. Morando." 1. xxiv.-xxv.

"Della cagione per cui abbia Dante voluto a questo suo poema dare il titolo di *Commedia*." F. R. Morando. 1. xxvi.-xxvii.

Lombardi spent many years of his life in preparing this edition of the Divina commedia. He consulted all the best editions and many valuable manuscripts unknown to the Accademia della Crusca whose edition was published in 1695. The latter had been generally accepted as of the greatest accuracy, but Lombardi introduced many new readings and his text has been adopted as the basis of most modern editions.

This copy belonged to Lombardi himself and contains numerous and important additions in ms. as he meditated a new edition. They were but partially used in the edition printed at Rome by De Romanis in 1815-16 [no. 44]. A complimentary letter from Cardinal Borgia to Lombardi is placed in the first volume.

35. — La divina commedia. [With an introduction and "aggiunta critica" at the end of each vol. by G. J. DE' M. DIONISI.] 3 tom. Parma, *nel regal palazzo co' tipi bodoniani*. 1795. 8°. *Port.* Dn. 7.95

See *Colomb de Batines*, i. 121; also *Foscolo's Discorso sul testo* (p. 426), in regard to Dionisi's new readings.

Portrait: — "Stefano Tofanelli delineo; Raffaello Morghen incise in Firenze."

36. — La divina commedia. 3 vol. Penig, a spese di F. Dienemann e comp. 1804. 4°. (N.)

"Bella edizione giudicata correttissima, pubblicata per cura del professore Fernow. L' editore ha seguito la lezione degli

Accademici sull' edizione datane dallo Zatta nel 1757, conferendola con quella del Lombardi."—Colomb de Batines, i. 127.

Scartazzini says that Fernow had no part in the work. The unsold copies of this edition passed through various hands and appeared at several later dates. Such a case the edition catalogued beyond with the imprint "Breslavia, 1843" [no. 78] seems to be.

Some bibliographies mention a 4th volume, but it is doubtful if more than the three were ever published. Thirty-nine folio plates by Hummel from Flaxman's designs, illustrating the inferno, were published with the work, but are wanting in this copy.

37. — La divina commedia. Illustrata di note da LUIGI PORTIRELLI. 3 vol. Milano, *dalla società tipog. de' classici italiani*. 1804-05. 8°. Port. and 3 plates. Dn. 28.4 (BPL. *4801.1)

"Vita" by G. Tiraboschi. i. xxvii-lxvii. The notes are drawn mostly from Lombardi and Jacopo della Lana.—See Colomb de Batines, i. 125.

Portraits:—"G. Benaglia dis. ed inc." Wanting in the HCL copy.

38. — La divina commedia. Con illustrazioni [by GIOVANNI ROSINI]. 4 tom. in 2. Pisa, *dalla tipog. della società letteraria*. 1804-09. f. 2 ports. and 8 plates.

Dn. 8.4.2 (BPL. *G. 10.50)

250 copies. The BPL. copy is one of 20 on vellum paper. Vol. iv. contains "Vita di Dante e gli Indici del Volpi, ristretta e riformata." See Colomb de Batines, i. 128.

Portraits:—"Dante," "Stefano Tofanelli delin.; Raffaello Morghen incis. in Firenze";—Card. Despuig (to whom the work is dedicated), "Tofanelli del.; Petr. Bettelini sculp. Romae."

Plates:—"Two by Bettelini, one by Lepi, 'Raff. Morghen incisae.'" These are not found in all copies and did not originally belong to the HCL copy. They were presented to the library by Baron Ferd. Botta.

— The same. Vol. i.-iii. 1804. f. 2 ports. Dn. 8.4

39. — La divina commedia copiata dalla edizione romana del P. LOMBARDI. S' aggiungono le varie lezioni, le dichiarazioni necessarie, e la vita dell' autore nuovamente compendiate da C. L. FERNOW. 3 tom. Jena, *presso Fed. Frommann*. 1807. 12°. (Raccolta di autori classici italiani. Poeti, i-8.) Dn. 28.7

Considered the best of the earlier German editions. See Colomb de Batines, i. 120.

40. — La divina commedia, già ridotta a miglior lezione dagli Accademici della Crusca, ed ora accuratamente emendata, ed accresciuta di varie lezioni, tratte da un antichissimo codice. [Edited by GAETANO POGGIALI.] 4 tom. in 2. Livorno, *presso Tommaso Masi e comp. co' tipi bodoniani*. 1807-18. 8°. Port. and plate.

Dn. 28.7.2 (BPL. *2800.20)

Contents:—i. ii. Divina commedia.—iii. iv. Vita di Dante scritta da Leonardo Aretino. Annotazioni.

Portraits:—"Stefano Tofanelli delin.—Raffaello Morghen inc."

41. — La divina commedia. 3 vol. Milano, *Mussi*. 1808-09. 32°. (T.)

42. — La divina commedia, edizione formata sopra quella di Comino del 1727, con indici ricchissimi composti da G. A. VOLPI. 2 vol. Venezia, *Vittarelli*. 1811. 16°. (Collezione d' alcuni classici italiani.) (T.)

Vol. i. contains the text, vol. ii. the indices.

43. — La divina commedia, col commento del P. POMPEO VENTURI, edizione conforme al testo cominiano del 1727. 3 vol. Firenze, *Niccolò Carli*. 1818. 12°. (T.)

Vol. i. contains Venturi's preface to the first edition which contained his comment, Lucca, 1782, and Aretino's Life of Dante.

44. — La divina commedia corretta, spiegata e difesa dal P. BALDASSARRE LOMBARDI nel 1791. Ricontrata ora sopra preziosi codici, nuovamente emendata di molte altre vaghe annotazioni [by FILIPPO DE ROMANIS]. Tom. i.-iii.; —Le principali cose appartenenti alla Divina commedia, cioè il Rimario, la Visione di Alberico, la vita del poeta, etc. [iv.] 4 tom. Roma, *nella stamperia de Romanis*. 1815-17. 4°. Port. and 3 plates.

Dn. 18.15 (T. BPL. *2801.1)

For the sources which De Romanis consulted and the contents of vol. iv., see Colomb de Batines, i. 137.

Portraits:—"Raf. Sanzio dip. L. Durantini dis. Ang. Testa inc." "Il ritratto è copia fedele di quello che si ammira nello stupendo affresco del Vaticano conosciuto sotto il nome di Disputa del Sacramento."

45. — La divina commedia con tavole in rame. [Edited by A. RENZI, G. MARINI, and G. MUZZI.] 4 tom. Firenze, *nella tipog. all' insegna dell' Ancora*. 1817-19. f. Ports. and 125 plates. Dn. 8.17

Vol. iv. contains:—Vita di Dante Alighieri scritta da Lionardo Aretino.—Breve trattato sopra la forma, posizione, e misura dell' inferno. [G. del Rosso].—Discorso intorno al canto iv. dell' Inferno di Dante. G. F. G. Napione di Cocconato.—Allegoria della Divina commedia [del Marchetti].—Annotazioni [drawn from many ancient commentators].

Portrait:—Medallion vignette on the title-pages of tom. i.-iii.

Plates:—Those of the Inferno (44) and of the Purgatorio (40) were designed by Luigi Ademollo, those of the Paradiso (41) by Nenci. See Artaud de Montor, *Histoire de Dante*, p. 509, note, for a discussion of their merit.

46. — La divina commedia col commento di G. BIAGIOLI. 3 tom. Parigi, *Dondey-Dupré*. 1818-19. 8°. Dn. 28.18

"Bella e nitida e correttissima edizione." Has been often reprinted. Colomb de Batines (i. 143) mentions a portrait of Dante, but none appears.

47. — La divina commedia, col commento di G. BIAGIOLI. 3 vol. Milano, *Silvestri*. 1819. 8°. (T.)

A reprint of the edition with Biagioli's comment of the preceding year.

— See no. 284. L' inferno tradotto in versi eroici latini dal dottore ANTONIO CATELLACCI. *Ital. and Lat.* 1819.

48. — La divina commedia di mano del Boccaccio. [Published by LUIGI FANTONI.] Roveta, *negli Occhi Santi di Bice*. 1820. 1.8°. Front. and fac-sim. Dn. 28.20 (BPL. 2802.1)

"È copia del codice della Vaticana, no. 3199."

Portrait:—"Il ritratto fu inciso sopra un disegno originale ed inedito di Gius. Bossi, che si conserva dal marchese Trivulzio."—Colomb de Batines, i. 148. The frontispiece has also portraits of Boccaccio and Petrarch.

49. — Another copy of the same edition, Inferno only, printed in yellow ink on dark purple paper. Dn. 28.20.2

50. — La divina commedia. Nuova ed. 3 vol. Parigi, *G. P. Aillaud*. 1822. 32°. Port. Dn. 28.22

Portrait:—"C. Knight sculpt."

51. — La divina commedia col commento del P. BALDASSARRE LOMBARDI, ora nuovamente arricchito di molte illustrazioni edite ed inedite. Vol. i.-iii.; —Il rimario della Divina commedia, l' indice delle voci, e quello de' nomi proprj e delle cose notabili. Vol. iv.; —La biografia di Dante. Varie illustrazioni della Divina commedia, ed il catalogo delle edizioni,

- Vol. v. [Edited by G. CAMPI, F. FEDERICI and G. MAFFEI.] 5 vol. Padova, *dalla tipog. della Minerva*. 1822. 8°. *Port.* and 8 plates. Dn. 28.22.2 (BPL. *4800.5)
- "Edizione con note di vari, la migliore di tutte le moderne edizioni della Divina commedia."—Colomb de Batines, l. 183.
- Portrait* (in vol. v.):—No indication given of engraver or designer. It is apparently founded on the death-mask, and is reproduced in Foscolo's edition, 1842-43, where it is signed "H. Robinson," also somewhat smaller in Borghi's edition, 1844. The lithograph in Martini's edition of 1840 is evidently founded on it, as well as the head in Buttura's *Quattro poeti italiani*, 1845, and the portrait in Kok's Dutch translation, 1863-64, which is much reduced, of inferior execution, and signed "D. J. Sluyter." Paur says of it "Das ganze bietet mehr den anblick eines münsters, etwas weibischen mönches, als des strengen weltverächters Dante."
52. — La divina commedia. 2 vol. Londra, *presso C. Corvalli, a spese di G. Pickering*. 1823, '22. 48°. *Port.* (N.)
- Minute edition in microscopic type.
- Portrait*:—"R. Morghen del. R. Grave sc."
53. — Opere poetiche con note di diversi per diligenza e studio di ANTONIO BUTTURA. 2 tom. Parigi, *presso Lefèvre*. 1823. 8°. *Port.* (I quattro poeti italiani.) (N. T. BPL. *4208.6)
- I. Poesie liriche. — Inferno. II. Purgatorio. — Paradiso. "Vita, scritta dal cav. G. Tiraboschi." l. 1-37.
- Portrait*:—"H. C. Müller sc."
54. — La divina commedia, giusta la lezione del codice bartoliniano. [Edited by the abate QUIRICO VIVIANI.] 3 vol. in 4. Udine, *pei fratelli Matthiuzzi*. 1823-28. 8°. *Plate* and *facsim.* (N. BPL. 2802.13)
- Contents* (partial):—I. Tavola de' testi consultati per la presente edizione. Dell' inferno. — II. Del purgatorio. Del paradiso. — III. 1. Ragionamento sopra Dante, di F. Torti. Il secolo di Dante: commento storico, di F. Arrivabene. — II. 2. Dizionario etimologico della Divina commedia. Indici. Supplimento alla tavola nel I. vol.
- Plate*:—"Dante alla grotta di Tolmino. G. Derif dis. Aliprandi inc. Milara dresse."
- See no. 195. L'enfer, par J. C. TAEVER. *Ital. and French*. 1824.
55. — Bellezze della Commedia di Dante Alighieri. Dialoghi d'ANTONIO CESARI [including the complete text]. 3 vol. Verona, *tip. di Paolo Libanti*. 1824-26. 8°.
- See Cesari, A. Bellezze, etc. 38.127 (BPL. 2801.8)
56. — La commedia illustrata da UGO FOSCOLO. Tom. I. Londra, *Gugl. Pickering*. 1825. 8°. Dn. 130.1
- Contents*:—Discorso sul testo e su le opinioni diverse prevalenti intorno alla storia e alla emendazione critica della Commedia di Dante.
- No more published. Foscolo died in 1827, and the work was taken up again some years later by Mazzini, and completed. See his edition of 1842-43 [no. 76].
57. — La divina commedia. 3 vol. Milano, *per Nicolò Bettoni*. 1825. 8°. *Fronts*. Dn. 28.25
- "Le note in piè di pagina son compendiate dai più celebri commenti, meno alcune inedite del Monti, del conte Perticari e della contessa moglie di lui."—Colomb de Batines, l. 161.
- The portrait of Dante by Bossi is wanting.
58. — La divina commedia, con brevi e chiare note [by Paolo Costa. With illustrations by G. G. MACHIAVELLI.] 3 vol. Bologna, *Gamberini e Parmeggiani*. 1826. 4°. (T.)
- Contents*:—Vol. I. contains (beside the text of the Inferno and notes by Costa and others) "Vita di Dante di Paolo Costa; Discorso del conte Gio. Marchetti intorno alla prima e principale allegoria del poema di Dante; Descrizione del Inferno." Vol. II. contains the Purgatorio and notes preceded
- by a "Descrizione del Purgatorio," and followed by a "Discorso di Paolo Costa nel quale si dichiarano due luoghi controversi della Div. com." Vol. III. contains the Paradiso and notes, and a "Descrizione del paradiso."
- Gozzi's Arguments are printed at the head of each canto.
- Machiavelli's illustrations were designed in Rome in 1806 and 1807, and first published in the Bologna edition of 1810-21, of which the present edition is a reprint with some few additions.
59. — La divina commedia con commento analitico di GABRIELE ROSSETTI. Vol. I., II. Londra, *John Murray*. 1826-27. 8°. *Diagrs.* (N.)
- Contents*:—I., II. L' inferno. No more was published.
- "Vita di Dante." I. xix-xl.
- "Disamina del sistema allegorico della Divina commedia." I. 331-405, II. 849-556.
- "Nozioni storiche intorno all' imperadore Arrigo di Lussemburgo." II. xvii-xlvii.
60. — La divina commedia con nuovi argomenti e note [del canonico BORGHESI]. 3 vol. Firenze, *P. Borghi e comp.* 1827. 32°. *Port.* (Collezione portatile di classici italiani, xix.-xxi.) Dn. 28.27
- Portrait*:—"E. Catani dis. Lastinio figlio inc." Is evidently founded on Morghen's portrait, very much reduced, and inferior.
61. — L' ottimo commento della Divina commedia; testo inedito d' un contemporaneo di Dante citato dagli Accademici della Crusca. [Edited with the text by ALESSANDRO TORREI.] 3 tom. Pisa, *Nic. Capurro*. 1827-29. 8°. *Port.* and *plates*. Dn. 28.27.2 (T. BPL. 2802.21)
- Portrait*:—"Stefano Tofanelli delin. Raffaello Morghen inc." Reduced from the large plate in the editions of 1795 and 1804. Also an outline engraving of the Florentine fresco wrongly attributed to Orgagna, representing Dante standing.
62. — La divina commedia: pubblicata da A. BUTTURA. 3 tom. Parigi, *presso Aimé-André*. 1829. 32°. *Port.* and 3 *plates*. (Biblioteca poetica italiana, i.-iii.) Dn. 28.29 (BPL. 6779a.15)
- "Ristampa dell' edizione parigina del 1820."—Colomb de Batines, l. 171.
- Portrait*:—"Pamela Dautel sc." A copy of Morghen's engraving reversed.
63. — La divina commedia, postillata da TORQUATO TASSO. 3 tom. Pisa, [Capurro] *co' caratteri di F. Didot*. 1830. 4°. *Portrs.* Dn. 28.30
- "Postille cavate dai margini di tre edizioni, per cura dell' ab. Rezzi, e pubblicate coll' intero testo di Dante dal prov. Gio. Rosini."—Lord Vernon, *Serie cronologica*, no. 226.
- Portrait*:—"Dante" A very close copy of the Tofanelli-Morghen portrait as it appeared in the editions of 1795 and 1804.
64. — La divina commedia con note di PAOLO COSTA, da lui per questa edizione nuovamente riviste ed emendate. Firenze, *tipog. all' insegna di Dante*. 1830. 24°. *Front.* and *sign.* Dn. 28.30.2
- With an engraved title-page. "Con questa edizione, fatta interamente su quella intrapresa nel 1827 in Milano da A. Bonfanti si pubblicarono nuove note del Costa, del Bionde e del Betti."—Colomb de Batines, l. 173.
65. — La divina commedia col commento del P. BALDASSARRE LOMBARDI. Vol. I.-III.; — Prose, rimario, indice. Vol. IV.; — Rime di Dante, precedute dalla sua biografia. Vol. V.; — Le egloghe latine, i trattati del Volgar eloquio e della Monarchia e le epistole. Vol. VI. 6 vol. Firenze, *Leonardo Ciardetti*. 1830-41. 8°. *Port.* and 3 *plates*.
- (i.-iii.) Dn. 28.30.3; (iv.-vi.) Dn. 28.30.4 (T. BPL. *2801.6; *4196.6)

- *The same*. Vol. vi. Firenze. 1841.
8°. Dn. 28.30.5

Vol. iv.-vi. have also the half-title "Opere minori di Dante, etc." This edition was also published with 112 illustrations from designs by Flaxman.

"Il testo è copiato dall'edizione padovana del '22 [no. 51]. Si aggiunsero per altro alcune varianti tratte dall'edizione d'Udine, 1833 [no. 54]."—Colomb de Batines, i. 175.

Portrait:—With no indication of engraver; a poor copy of Morghen's portrait, reversed.

66. — La divina commedia, con note di PAOLO COSTA. 3 vol. Napoli, *della tipog. del Petrarca*. 1836. '35. 24°. Dn. 28.36

"Vita." i. vii.-xxxviii.

67. — La divina commedia, con note di PAOLO COSTA, edizione eseguita sull'ultima fiorentina, dal commentatore medesimo rivista ed emendata. [With an appendix.] Monza, *tipog. Corbetta*. 1837. 1. 8°. *Port.* 38.46

"Vita di Dante Alighieri." pp. v.-xvi.

68. — La divina commedia ridotta a miglior lezione coll' aiuto di vari testi a penna da G. B. NICCOLINI, GINO CAPPONI, G. BORGHI, e FRUTTUOSO BECCHI. 2 vol. Firenze, *Felice Le Monnier e comp.* 1837. 1. 8°. *Port.*

(N. T. BPL. 2801.3)

Vol. II. Prefazione e avvertimenti di Fruttuoso Becchi.—Avvertimenti sul testo della Divina commedia.

Portraits:—"Del Bene dis. P. Viviani inc."

69. — La commedia col commento di N. TOMMASEO. [Pubblicata da G. Bernardini.] 3 vol. Venezia, *co' tipi del gondoliere*. 1837. 8°. *Vign.* (BPL. 2800.1)

"Nitidissima edizione. Ha ricchezza di citazioni che mostrano i fonti a' quali ebbe ricorso il poeta, e che sono specialmente la Bibbia, Aristotile, Virgilio, S. Tommaso."—Gamba, *Serie dei testi di lingua*, p. 133.

70. — La divina commedia col commento del P. BONAVENTURA [Baldassare] LOMBARDI, con le illustrazioni aggiuntevi dagli editori di Padova nel 1822 e con un'appendice novellamente compilata per questa ristampa. [With "Le rime di Francesco Petrarca," etc. 1839. pp. 741-927.] Firenze, *David Passigli*. 1838. 1. 8°. 4 plates. Dn. 28.38

Also with an engraved title-page to each division—Dante, and Petrarca.

71. — Lo inferno della commedia col commento di GUINIFORTO DELL'I BARGIGI tratto da due manoscritti inediti del secolo decimo quinto con introduzione e note dell'avv. G. ZACHERONI. Marsilia, etc., *Mossy*. 1838. 1. 8°. *Front.*, plates, and *vign.* (N.)

But few copies were printed. This copy does not contain the Dedication and Introduction spoken of in Colomb de Batines, i. 187.

72. — La divina commedia col commento del P. POMPEO VENTURI; nuova ed. a miglior lezione ridotta ed arricchita d'inedite postille del dottor GIOVANNI LAMI e di P. J. FRATICELLI. 3 tom. Firenze, *G. Molini*. 1839. 24°. *Port.* and plates. Dn. 28.39

"Della prima e principale allegoria del poema. Discorso di P. Fraticelli." i. x.-xi.

"Prefazione del P. P. Venturi all'edizione di Lucca del 1732." i. 1-6.

"Vita di Dante scritta da L. Aretino." i. 7-24.

This edition is not mentioned by Colomb de Batines or by Lord Vernon. It is a reprint, with slight changes, of that published by Formigli in 1837. It reproduces Venturi's Comment, first published in 1732, freed from the many inaccuracies which had disfigured it in earlier editions. See Colomb de Batines, i. 181.

Portrait:—The engraver's name and the source of the engraving are not given, but it is an unmistakable copy of the profile on a medal by Ant. Fabris produced in 1829, and engraved in Missirini's *Delle memorie di Dante in Firenze* [Dn. 535.3].

73. — La divina commedia dichiarata secondo i principii della filosofia per LORENZO MARTINI. 3 vol. in 1. Torino, *Giacinto Marietti*. 1840. 8°. *Port.* Dn. 28.40

Portrait:—A lithograph, apparently copied from the anonymous portrait in the Paduan edition of 1822.

74. — La divina commedia con le note di PAOLO COSTA, e gli argomenti dell'ab. G. Borghi; ed una vita appositamente scritta dal prof. Melchior Missirini. 1^a ed. originale italiana eseguita sotto la direzione dei sign. G. B. NICCOLINI [Nicolini] e G. BEZZUOLI. [Riveduto e ricorretto da P. J. Fraticelli.] 3 vol. Firenze, *Fabris*. 1840-42. 1. 8°. *Port.* and 500 vigns. (BPL. 2801.5)

Contents:—i. Della prima e principale allegoria del poema di Dante, discorso di P. Fraticelli. L' inferno.—ii. Il purgatorio.—iii. Il paradiso. Cronologia di avvenimenti connessi alla vita e alla commedia di Dante, etc., scritta da Ugo Foscolo.

The life by Missirini, regarded by Colomb de Batines (i. 190) as vol. i. was published separately without volume number (BPL. 2800.11).

The text follows Lombardi's edition of 1791. The illustrations, which were partly copied from the works of Flaxman, Pinelli, Ademollo, etc., were designed and engraved by Fabris, Balestrieri, Elisa Mariani and others.

75. — La divina commedia, col commento del P. POMPEO VENTURI, con postille d'altri e la vita dell'autore scritta da L. Aretino. Edizione arricchita per opera di A. RONNA. Parigi, *Truchy*. 1841. 12°. (T.)

— See no. 215. Die göttliche komödie. Von AUGUST KOPISCH. *Ital.* and *Germ.* 1842.

76. — La commedia illustrata da Ugo Foscolo. [Edited by "Un Italiano," i. e. Giuseppe Mazzini.] 4 tom. Londra, *Pietro Rolandi*. 1842-43. 8°. 3 *portrs.*, 6 plates, and *fac-sim.* Dn. 28.42

Contents:—i. Discorso sul testo e su le opinioni diverse prevalenti intorno alla storia e alla emendazione critica della Commedia. 1842.

ii. Inferno. 1842.

iii. Purgatorio. Paradiso. 1843.

iv. Cronologia di avvenimenti connessi alla vita, e alla Commedia di Dante. Notizie e pareri diversi intorno a forse duecento codici e alla serie delle edizioni della Commedia. Indice de' vocaboli, nomi, avvenimenti storici e allusioni riferiti con dichiarazioni a' versi del testo.

Vol. i. was published in 1825 by Pickering in London, but the edition was not continued, and Foscolo died in 1827. This is published according to his intentions and from material collected by him.

Portraits:—DANTE. "Ritratto all'età di 25 anni, dipinto da Giotto verso il 1290 nella cappella del Podestà a Firenze, scoperto il 21 luglio 1840. Seymour Kirkup disegnò."

—DANTE. "H. Robinson." "In età ormai avanzata, copiato su que' che si riguardano come bñi autentici, ed inciso in acciaio." It seems to be a copy of the anonymous portrait in the Paduan edition of 1822.—FOSCOLO. "H. Robinson sculp."

See Colomb de Batines, i. 162, 193.

— Another copy.

Dn. 28.42.2

Margins narrower and plates wanting.

77. — L' inferno secondo il testo del P. BALDASSARE LOMBARDI disposto in ordine grammaticale e corredato di brevi dichiarazioni per uso degli stranieri da LORD VERNON. [Cant. i.-vii.] Firenze, *Piatti*. 1842. 8°. *Port.*, *diagr.*, and *geneal. table*. Dn. 28.42.3

"Opinione del Balbo rispetto ai lavori sopra Dante." x.-xiii.—"Vita di Dante estratto dal Boccaccio." xxvii.—

lxxvi. — "Origine dei guelfi e ghibellini in Firenze dal lib. ii. delle storie del Machiavelli." lxxvii.-lxxx. — "Origine delle fazioni bianca e nera in Toscana." lxxxi.-xc. — "Albero della famiglia di Dante." 2 sheets. — "Cronologia della vita di Dante." xciii.-xcvi. — "Avvenimenti precedenti e contemporanei." xcvi.-civ. — "Imperatori re di Germania e re de' romani." cv.-cvii. — "Papi." cviii.-cix. — "Descrizione dell' inferno secondo Dante, cavata dall' edizione del Zotti." cx.-cxi. — "Misura dell' inferno secondo Alessandro Vellutello." cxii.

Portrait: — Ritratto dipinto da Giotto, scoperto il 21. luglio 1840. Seymour Kirkup disegnò. Cav. Paolo Lasinio inc.

78. — La divina commedia. Breslavia, a spese di S. Schletter. 1843. 8°. Dn. 28.43

Each cantica has a separate pagination. Cant. ii. has a title-page with the imprint "Penig, 1804." The whole is probably identical with the 8° edition of 1804, with a simple change of title-page.

79. — La divina commedia con nuovi argomenti e note di G. BORGH. Parigi, Baudry. 1844. 12°. *Portr. and plate*. Dn. 28.44

"Vita, scritta dall' abate P. A. Serassi." pp. i.-iv.

Portrait: — A copy of the anonymous portrait in the Paduan edition of 1822.

80. — La divina commedia col commento di PAOLO COSTA notabilmente accresciuto. Premessovi alcuni cenni intorno alla vita e alle opere del poeta tratti dalla Storia letteraria del prof. Giuseppe Maffei. [Edited by B. Bianchi.] Firenze, Felice Le Monnier. 1844. 12°. *Front.* Dn. 28.44.2

81. — I quattro poeti italiani con prefazioni e commenti da PAOLO EMILIANI-GIUDICI. Firenze, società editrice fiorentina. 1845. 8°.

(BPL. 2791.11)

"La divina commedia." pp. 71-305.

82. — I quattro poeti italiani, Dante, Petrarca, Ariosto, Tasso. Edizione fatta su quella di A. BUTTURA [pubblicata da Antonio Ronna]. Parigi, Baudry. 1845. 12°. *Portr.* (Par-naso italiano.) (BPL. 4779.64)

"La divina commedia." pp. 1-138.

Portraits: — A group of the four poets. Dante's head seems to be taken from the anonymous portrait in the Paduan edition of 1822.

83. — Inferno in versi e in prosa. [Edited, with Gozzi's Argomenti, by Carpanetti.] Firenze, Felice Le Monnier. 1847. 12°. Dn. 28.47

The prose is given at the foot of the page.

— See no. 138. Divine comedy: the Inferno. By J. A. CARLYLE. *Ital. and Eng.* 1849.

84. — La divina commedia. Venezia, G. Tasso. 1852. 24°. (BPL. 6109a.57)

85. — La commedia novamente riveduta nel testo, e dichiarata da BRUNONE BIANCHI. 4^a ed., corredata del Rimario. Ed. stereotipa. Firenze, Felice Le Monnier. 1854. sm. 8°.

Dn. 28.54

"Vita di Dante" by L. Bruni Aretino.

86. — Commedia con ragionamenti e note di NICCOLO' TOMMASO. Milano, per Giuseppe Reina. 1854. 1. 8°. (N.)

Biographical and historical introductory essays, pp. 13-60.

— See no. 187. La divine comédie. Par J. A. MESNARD. *Ital. and French.* 1854-57.

87. — La divina commedia col commento di G. BIAGIOLI. 4^a ed. con rami e coll' indice de'

nomi e delle cose notabili per cura del sac. B. G. 3 vol. Napoli, A. Festa, etc. 1855. 12°. 26 plates. (BPL. 2809.8)

The 1st ed. was published in 1818.

The plates are taken from Flaxman's designs.

— See no. 185. La divine comédie. Par H. F. R. DE LAMENNAIS. *Ital. and French.* 1855.

88. — Commento latino [of BENVENUTO DA IMOLA, translated into Italian, with the text of the Divina commedia]. Imola, tipog. Galeati. 1855-56. 8°.

See Rambaldi, da Imola, B. Commento latino, etc.

(N. BPL. 2802.14)

89. — La commedia, interpretata da FRANCESCO GREGORETTI. Venezia, Pietro Naratovich. 1856. sm. 8°. (BPL. 4800.20)

— See nos. 190-192. [La divine comédie.] Par LOUIS RATISBONNE. *Ital. and French.* 1856-60.

90. — La divina commedia, illustrata dal conte FRANCESCO TRASSINO col testo originale a riscontro ad utilità e comodo degli studiosi della sublime poesia. 3 vol. Vicenza, tipog. Paroni. 1857-58. 8°. Dn. 28.57

"Eseguita precisamente sopra quella fiorentina di David Passigli dell' anno 1838."

The text is given on the left and a running paraphrase and comment on the right.

"È il miglior lavoro di questo genere, condotto con chiarezza e vaghezza di lingua." — Carpellini, p. 5.

"Idea del poema di Dante." iii. 635-640. "Idea possibilmente precisa del luogo nel quale in ciascuna delle tre cantiche s' incomincia e si compie partitamente tutta l' azione" [from Galileo and Lombardi] iii. 641-655.

"Indice di tutti i luoghi visitati da Teodoro Hell nel suo viaggio." iii. 656-657.

"Indice dei nomi propri e delle cose notabili contenute nelle tre cantiche." iii. 658-669.

91. — Le prime quattro edizioni della Divina commedia letteralmente ristampate per cura di G. G. WARREN, LORD VERNON. Londra, Tommaso e Guglielmo Boone. 1858. f°. *Fac-sims.* (N. BPL. *2800.4)

The four editions are those of Foligno, 1472, Jesi, 1472, Mantua, 1472, and Naples, 1474. The four texts are printed in the four quarters of each page. The work was edited, with a preface, by Sir Anthony Panizzi.

92. — L' inferno disposto in ordine grammaticale e corredato di brevi dichiarazioni da G. G. WARREN, LORD VERNON. 3 vol. Londra, Tommaso e Guglielmo Boone. 1858-65. f°. *Maps, plates, fac-sim., vcdts., etc.* Dn. 8.58

Vol. i. "contains the text of the 'Inferno' with a grammatical *ordo*, brief explanations of words, persons, and places, and a series of extremely useful analytical tables of the allegory as expounded by commentators ancient and modern." Also, a "serie cronologica delle edizioni della Div. com. fino al 1850."

Vol. ii. Documenti. 1862. "In the second volume will be found brought together not a few writings, documents, and tracts, which illustrate the biography and circumstances of the Poet, the history of his time, and of the personages mentioned in the cantica. The greater part of these writings are the productions of various Italian literati, who, from the friendship they profess for me, and at my request, have kindly furnished me with these works for the embellishment of my own."

Vol. iii. Album. 1865. 112 plates. Engravings representing "portraits, paintings, plans, and above all, historical monuments; they illustrate the history of the 14th cent., the biography of Dante, and the particulars of his poem."

Portraits: — Frontispiece, (photog.) "Drawn from the original (by Giotto) by Seymour Kirkup, the first promoter of the discovery, and traced on the fresco in the palace of the Podesta in Florence before the painting was retouched." — Plate ii. The same, engraved by Lasinio. — Plate iii.

The same, head only. — Plate vi. "Maschera di Dante," front and profile, drawn by Kirkup, engraved by Lasinio. — Plate ix. "Basso rilievo sul sepolcro di Dante a Ravenna." Drawn by Kirkup, engraved by Lasinio.
See Barlow's *On the Vernon Dante*.

93. — Commento di FRANCESCO DA BUTI [with the text of the Divina commedia]. Pisa, *fratelli Nistri*. 1858-62. 8°.

See Buti, F. DI B. DA. Commento, etc.
Dn. 28.58 (BPL. *4795.1)

94. — La divina commedia su' comentì di BRUNO BIANCHI nuovamente illustrata ed esposta e renduta in facile prosa per GIOVANNI CASTROGIOVANNI. Palermo, *ufficio tipog. lo Bianco*. 1858 [1861]. 1. 8° Dn. 28.58.2

"Cenni intorno alla vita ed alle opere di Dante Alighieri estratti dal Maffei e da altri scrittori." pp. vii.-x.
"L' edizione è poco corretta." — Carpellini, p. 6.

95. — La divina commedia col commento di PIETRO FRATICELLI. Nuova ed. con giunte e correzioni, arricchita de' cenni storici intorno al poeta, del rimario [e] d' un indice. 1 vol. in 3. Firenze, *G. Barbèra*. 1860. 8° Port. and 3 plates. (Raccolta dantesca. 1.) (N.)

"Cenni storici intorno la vita di Dante Alighieri." ix.-xiv.
"Della prima e principale allegoria del poema di Dante." xxv.-xliii.

"Rimario della Divina commedia." pp. 112.
Portrait: — "Ritratto dall' amico suo Giotto nella cappella del Potestà in Firenze, scoperto l' anno 1841."

— See nos. 175-180. [La divine comédie] avec les dessins de Gustave Doré. Traduction de P. A. FIORENTINO. Ital. and French. 1861-1872.

— See no. 189. Le purgatoire. Par A. F. OZANAM. Ital. and French. 1862.

96. — La divina commedia ricorretta sopra quattro dei più autorevoli testi a penna da CARLO WITTE. Berlino, *Ridolfo Decker*. 1862. 4° Photograph. Dn. 28.62 (BPL. *4790.39)

The various readings of the manuscripts and editions consulted are printed on the margins of each page. The Introduction is a thorough critical essay of the text of the D. C.; its history, the authority of mss. and printed texts &c. &c. Witte's wide and exact scholarship, and his excellent taste and judgment are apparent throughout. His work cannot be superseded. — C. E. N.

Pasted on the first flyleaf is a photograph of a bust of Dante taken from the death-mask.

97. — La divina commedia. Edizione minore fatta sul testo dell' edizione critica di CARLO WITTE. Berlino, *Ridolfo Decker*. 1862. 8° Dn. 28.62.2

98. — La divina commedia, all' intelligenza di tutti. Studio d' un solitario [P. I. LAMBRICI DI LONGIANO]. 2ª ed. 2 vol. (paged contin.) Firenze, *tipog. Fioretti*. 1862. sm. 8° Port. Dn. 28.62.3

"Ha una stampa in legno incisa dal Gozzini. È il ritratto di Dante preso da quello che il Bronzino [Alessandro Allori] dipinse nella Cappella del Montauto alla SS. Nunziata, ricavato da esso dalla maschera di Dante." — Carpellini, p. 9.
With introductory discourses, and a "Repertorio alfabetico che somministra le cognizioni d' ogni maniera opportune all' intelligenza della D. C.," pp. 731-890.

99. — La divina commedia esposta in prosa dal conte FRANCESCO TRISSINO col testo a riscontro. 2ª ed. dall' espositore riveduta e corredata di note sue e d' altri. 3 vol. Milano, *Gaetano Schiepatti*. 1864. 8° Port. (BPL. 2800.5)

Vol. i. has also a chromo-lithographed title-page.

Vol. i. contains "Vita di Dante scritta da Paolo Costa," and "Idea del poema di Dante."

Portrait (colored): — Full-length, seated; a wretched production.

100. — Commento su la Divina commedia pel prof. A. G. DE MARZO [with the text]. Firenze, *Grazzini, Giannini e c.* 1864-82. 4°.

See Marzo, A. G. DE. Commento, etc. Dn. 28.64

101. — La divina commedia secondo la lezione di CARLO WITTE. Prima ed. italiana adorna di cento incisioni antiche. 3 vol. in 1. Milano, *G. Daelli e c.* 1864-66, '64. 16° Fronts. and wdets. (BIBLIOTECA RARA, xli.-xliii.)

Dn. 28.64 (BPL. 2799.53; vol. 41-43 of *4760a.50)

The title-page of each vol. is illustrated, and the woodcuts are copied from the edition of 1491 [no. 6].

102. — La divina commedia col commento cattolico di LUIGI BENNASSUTI. 3 vol. Verona, *stabilimento Civelli*. 1864-68. 8°, and atlas of 25 plates. (BPL. 4792.1)

HCL. has Vol. i. Inferno. Dn. 28.64.2

The text was edited by Bartolommeo Sorio. The plates in the BPL. copy have been collated and found to agree with the list given in Ferrazzi's *Manuale dantesco*, vol. 4, pp. 154, 155; see also vol. 2, pp. 490-492, 763.

103. — Il codice cassinese della Divina commedia, per la prima volta letteralmente messo a stampa per cura dei monaci benedettini della badia di Monte Cassino. Monte Cassino. 1865. f. 6 plates of fac-sims. and port. (N. BPL. *4800.14)

Prolegomena on the history of the manuscript, its palaeography, and the manner in which it has been edited, pp. iii.-iv. The various readings of nineteen other editions or manuscripts are given at the foot of each page.

The manuscript here published is described by Colomb de Batines (il. 221); see also a letter from the abate Costanzo, originally published in 1801, and reprinted in the editions of the Divina commedia published in Rome, 1815 (iv. 17-107) and Padova, 1822 (v. 157-268).

Portrait: — A photograph of a painting by Scipione Pulzone da Gaeta preserved at Monte Cassino.

— See no. 145. The divine comedy. By JOHN DAYMAN. Ital. and Eng. 1865.

— See no. 148. The Inferno. By JAMES FORD. Ital. and Eng. 1865.

104. — La divina commedia, ridotta a miglior lezione dagli Accademici della Crusca con le chiose di VINCENZO GIOBERTI. [Ed. da Bruto Fabricatore. Inferno c. i.-iv. 102.] Napoli, *dalla stamperia del Vaglio*. 1865. 8° pp. (4), 24+. Dn. 28.65.2

105. — Comedia di Dante degli Allagherii col commento di JACOPO DI GIOVANNI DALLA LANA, bolognese. In onore della città di Bologna dopo studi e raffronti su codici molti nel dc. anno dalla nascita del divino poeta Luciano Scarabelli. Milano, *Carlo Moretti*. [1865.] f. (N.)

Preface on Jacopo dalla Lana and his comment, and on the proper form of Lana's name, and Dante's name, pp. v.-xlv. — "Intorno al disegno della Comedia; lettera controversa di Dante a Cane della Scala," pp. xlv.-xlviii. — "Al commento fatto da Jacopo de Zone di Fra Filippo dalla Lana alla Divina commedia; proemio dal codice laurenziano Pl. xc. 115," pp. xlix.-l. Indexes to Lana's comment, pp. 505-516.
The text is printed in blue ink down the middle of the page, with the comment on either side, above and below, in smaller type.

106. — *Commedia con ragionamenti e note di NICCOLÒ TOMMASÉO*. 3 vol. Milano, *Francesco Pagnoni*. 1865. f°. *Port.* and 54 *plates*. Dn. 8.65

The engravings are by Carlo Barbieri, Felice de Maurizio, and Federico Faruffini.

Portrait: — "Eseguito sopra Giotto, Nello Fiorentino, e Pietro Lombardo dal distinto pittore Faruffini Federico."

107. — *La divina commedia, chiarita con note ad uso della gioventù italiana ed illustrata da cento tavole di composizione di Giovanni Flaxman*. Vol. 1, fasc. i. ii. 2 fasc. Milano, *antica ditta Pietro e Giuseppe Vallardi*. 1865. f°. *Front.* and 4 *plates*. Dn. 28.65

Contents: — Inferno. Cantos I.-iv.

108. — *Commento alla Divina Commedia d'anonimo fiorentino del secolo xiv. ora per la prima volta stampato a cura di PIETRO FANFANI*. [With the text.] 3 tom. Bologna, *G. Romagnoli*. 1866-74. 8°. (Collezione di opere inedite o rare dei primi tre secoli della lingua, etc.) Dn. 28.66 (BPL. 4762a.11)

109. — *Comedia col commento di JACOPO DELLA LANA*. Nuovissima ed. [da] LUCIANO SCARABELLI. 3 vol. Bologna, *G. Romagnoli*. 1866. 8°. (Collezione di opere inedite o rare dei primi tre secoli della lingua, etc.) Dn. 28.66.2

— See no. 139. *Divine comedy: the Inferno*. By J. A. CARLYLE. 2d ed. *Ital.* and *Eng.* 1867.

110. — *La divina commedia*. Testo comune colle variazioni dei codici pubblicati da CARLO WITTE. 1^a ed. americana. Boston, *De Vries, Ibarra & c.* 1867. 8°. *Port.* (BPL. 4800a.24)

Portrait: — By Gustave Doré.

111. — *Commedia con note di GREGORIO DI SIENA*. Inferno. Napoli, *stabil. tipogr. Perrotti*. 1867-70. 8°. *Diagrs.* Dn. 28.67

112. — *Codice frammentario della Divina commedia, di pertinenza della biblioteca dell'università di Bologna, edito secondo la sua ortografia per opera e cura di LUCIANO SCARABELLI*. Bologna, *tipogr. regia Merlani*. 1869. sm. f°. *Fac-sim.* Dn. 28.69

"Edizione non venale di 300 esemplari."

113. — *La divina commedia*. Arricchita con annotazioni e spiegata da CARLO DI REINHARDT-STETTNER. 2 fasc. in 1 vol. Lipsia, *E. Fleischer*. 1869-70. 16°. (Collezione di scrittori italiani, i., ii.) Dn. 28.69.2

Contents: — L' inferno. No more published.

114. — *Esemplare della Divina commedia donato da papa (Benedetto XIV.) Lambertini allo studio di Bologna, edito secondo la sua ortografia, illustrato dai confronti di altri xix. codici danteschi inediti, e fornito di note critiche da LUCIANO SCARABELLI*. 3 vol. Bologna, *G. Romagnoli*. 1870-78. 8°. (Collezione di opere inedite o rare dei primi tre secoli della lingua, etc.) Dn. 28.70 (BPL. 4762a.21)

115. — *La divina commedia col commento di RAFAELE ANDREOLI*. Ed. stereotipa. Firenze, *G. Barbèra*. 1870. 8°. (N.)

116. — *La divina commedia*. Riveduta nel testo e commentata da G. A. SCARTAZZINI. 3 vol. Leipzig, *F. A. Brockhaus*. 1874-82. sm. 8°. Dn. 28.74

117. — *La divina commedia*. Milano, *U. Hoepli*. 1878. 128°. *Port.* (BPL. *2799a.50)

This book is 5½ cm. high, 3½ cm. wide, and 2 cm. thick, and is said to be the smallest printed book in the world. 1000 copies printed.

— See no. 186. *L' enfer mis en vieux langage français* par E. LITTRÉ. *Ital.* and *Old French*. 1879.

118. — *La divina commedia, illustrata da Gustavo Doré e dichiarata con note tratte dai migliori commenti per cura di EUGENIO CAMERINI*. Ed. economica. Milano, *Edoardo Sonzogno*. 1880. f°. *Port.* and 135 *plates*. Dn. 8.80

Portrait: — By Gustave Doré. It does not seem to be drawn from any one preceding portrait.

— See no. 137. *The purgatory*, by A. J. BUTLER. *Ital.* and *Eng.* 1880.

119. — *La divina commedia*. Con note dei più celebri commentatori raccolte dal prof. G. B. FRANCESIA. 5^a ed. 3 vol. Torino, *tipogr. e libreria salesiana*. 1880-81. 16°. Dn. 28.80 (BPL. 4770a.79)

120. — *Commedia, preceduta dalla vita e da studi preparatori illustrativi, esposta e commentata da ANTONIO LUBIN*. Padova, *L. Penada*. 1881. 1. 8°. *Port.* and 4 *plates*. Dn. 28.81

"Vita e opere di Dante Alighieri." pp. 7-140. — "Studi preparatori illustrativi." pp. 141-496. — "Tavole sinottiche." pp. 497-520.

121. — *La divina commedia* [edited by GUIDO BIAGI]. Firenze, *G. C. Sansoni*. 1883. 64°. (Piccola biblioteca italiana.) Dn. 28.83

— See no. 146. *Divine comedy: the Purgatorio*. By W. S. DUGDALE. *Ital.* and *Eng.* 1883.

— See no. 181. *De goddelijke komedie door JOAN BOHL*. *Ital.* and *Dutch*. [1884.]

Selections.

— See 235. *Polyanthea* [including extracts from Dante in Italian and Latin]. 1517. f°.

122. — [Quotations from the *Divina commedia* and translations from the version of H. Boyd to accompany Flaxman's compositions.] London, *Longman, Hurst, Rees, and Orme*. 1807. 8°.

See Flaxman, John. *Compositions, etc.* (BPL. *4800a.2)

123. — [Parallel passages from the *Divina commedia* in Italian, German, English, and French, accompanying Flaxman's illustrations.] 3 vol. in 1. Carlsruhe, *Creuzbauer*. [1833-35.] obl. 8°.

See Flaxman, John. *Composizioni, etc.* (BPL. *4230a.11)

124. — *Études sur la langue italienne par HIRPOLYTE TOPIN*. [With text, and translation in Alexandrine verse, of Purg. i., x., xii.; Parad. i., ii., vi., xxiii.] Florence, *typog. galiléenne de M. Cellini et c.*, etc. 1855. 8°.

See Topin, H. *Études, etc.* Dn. 79.2

125. — *Liriche e parte del Paradiso come sono nel codice palatino clxxx. autografo di FRANCESCO PETRARCA.* [Publicati con uno discorso da Francesco Palermo.] (In PALERMO, Francesco, *editor*. I manoscritti palatini di Firenze. Firenze, 1860, ii., 597-880.) *Port.*, *fac-sim.*, 2 plates, and *diagrs.*

(BPL. *2200.13.2)

The portions of the Paradiso given are canto x. v. 31 to end, canto xi.-xxx., xxi. the first 15 verses, xxxii. from v. 91 to end, xxxiii.

Portrait: — "Ritratto maraviglioso, a penna e acquarello eseguito nel secolo xiv., e che si ritrova nel codice 812 della Biblioteca Palatina"; supposed to be the work of Giotto, representing the poet at a more advanced age than in the painting of the Podestà.

126. — *Selections from the Inferno with introduction and notes by H. B. COTTERILL.* Oxford, Clarendon press. 1874. 16°. Dn. 34.1

Contents: — Table of dates. — Historical sketch. — Dante's life. — Origins of the Italian language. — Rise of Italian poetry. — Metre and versification. — The poem: its sources and meaning. — Dates of the cantiche. — Dell' Inferno. — Notes. — Topography of the Inferno. — The days and hours of the descent. — Unusual forms of certain verbs. — Index.

127. — *Pensieri, massime, e giudizi estratti dalla Divina commedia e ordinati per comodo degli studiosi da LORENZO BARTOLUCCI.* Città di Castello, S. Lapi. 1884. 16°. Dn. 34.2

TRANSLATIONS.*

(Alphabetically by language and translator.)

Catalan.

128. — *Fragments inédits de la traduction [catalane] de la Divine comédie d' ANDREU FEBRER.* [1429.] (In CAMBOULIU, F. R. *Essai sur l'histoire de la littérature catalane.* Paris, 1858, 8°, pp. 181-187.) (BPL. 3093.16)

Contents: — Enfer. ch. i. [l. 1-80]; Épisode d' Ugolin.

129. — *La comedia, traslatada de rims vulgars toscans en rims vulgars catalans per N' ANDREU FEBRER.* (Siglo xv.) Dala a luz, acompañada de ilustraciones crítico-literarias, D. Cayetano Vidal y Valenciano. Tom. i. Barcelona, Alvaro Verdager. 1878. 16°.

Dn. 120.1 (BPL. **D. 242.21)

Contents: — I. El poema.

Danish.

130. — *Guddommelige komedie, oversat af C. K. F. MOLBECH.* 2^{de} udgave. 4 deel. in 2 vol. Kjøbenhavn, Thieles bogtrykkeri. 1865-66. 12°. *Port.* Dn. 110.1

i. Indledning. 1865. — ii. Helvede. 1865. — iii. Skærsliden. 1866. — iv. Paradiset. 1866.

Portrait: — "Efter en maske tagen over hans lig i Ravenna, 1321. Phot. af J. Wulff." This is apparently a copy of the medallion formerly in the possession of the Marquis Torrigiani, and supposed to have been copied directly from the mask.

* The following editions contain also the Italian text: — nos. 131, 137, 138, 139, 145, 146, 148, 175-180, 185, 186, 187, 188, 189, 190-192, 193, 195, 215, 223, 234.

The following editions contain parts only of the Divina commedia: — *Inferno*, English, 136, 138, 139, 144, 147, 149, 155, 158, 162, 163, 164, 165, 166; French, 184, 186, 188, 193, 195; German, 199, 201, 203, 207, 208, 222; Italian dialects, 228, 230; Latin, 234.

Purgatorio, English, 137, 148; French, 189; German, 200. *Paradiso*, Dutch, 131; Italian dialects, 231.

Smaller portions and Selections, Catalan, 128; English, 135, 163, 164, 166, 167, 169; French, 196, 197, 198; German, 204, 218, 225; Italian dialects, 232; Latin, 235, 237, 238.

Dutch.

131. — *De goddelijke komedie in nederlandsech terzinen vertaald met verklaringen en geschiedkundige aantekeningen nopens den dichter door JOAN BOHL.* Dutch and Ital. 3^e lied. Amsterdam, Brinkman & Van der Meulen. [1884.] 8°. *Front.* Dn. 111.1

Contents: — Het paradijs.

132. — *Divina commedia. Metrische vertaling, voorzien van ophelderingen en afbeeldingen.* Door A. S. Kok. 8 deel. in 2. Haarlem, A. C. Kruseman. 1863-64. 12°. *Port.* and *plans.* Dn. 111.2

i. De hel. 1863. — ii. De louteringsberg. 1864. — iii. Het paradijs. — Dante Alighieri, zijn tijd en zijn werken. 1864.

Portrait: — "D. J. Sluyter sculps." Apparently founded on the anonymous portrait of the Paduan edition of 1822, with which it corresponds in the somewhat peculiar character of the expression.

133. — *De goddelijke comedie. Met schets van den inhoud, verklaring en aantekeningen, door U. W. THODEN v. VELZEN.* Naar het origineel bewerkt. 3 vol. Leeuwarden, A. Jongbloed. 1874. 12°. Dn. 111.3

English.

134. — *The Divina commedia. Translated into English verse, with preliminary essays, notes, and illustrations, by REV. HENRY BOYD.* 3 vol. London, Cadell and Davies. 1802. 8°. *Port.* Dn. 36.1 (BPL. **G. 16.39)

Essays: — A comparative view of the Inferno with some other poems. — Historical essay on the state of affairs in the 13th and 14th centuries. — Life of Dante from Leonardo Bruni. — Preliminary essay on the Purgatorio. — Preliminary essay on the Paradiso.

Portrait: — "T. Stothard, R. A. del. R. H. Cromek sc."

135. — [Quotations from the version of HENRY BOYD to accompany Flaxman's compositions.] London, Longman, Hurst, Rees and Orme. 1807. obl. 8°.

See Flaxman, John. *Compositions, etc.* (BPL. *4800.2)

136. — *Divine comedy. The first part, Hell, translated in the metre of the original, with notes, by THOMAS BROOKSBANK.* London, J. W. Parker. 1854. 16°. Dn. 36.2

137. — *The Purgatory; edited with [prose] translation and notes by A. J. BUTLER.* Ital. and Eng. London, Macmillan and co. 1880. 8°. (N. BPL. 2798.55)

"It is at the production of a 'crib' pure and simple that I have aimed." — *Preface.*

"Appendix A. (Note to canto xxvii.) The dreams of cantos ix., xix., and xxvii." pp. 422-426.

"App. B. On the allegory of cantos xxix.-xxxiii." pp. 427-432.

"Glossary." pp. 433-458.

138. — *Divine comedy: the Inferno. A literal prose translation, with the text of the original collated from the best editions, and explanatory notes. By J. A. CARLYLE.* London, Chapman and Hall. 1849. 12°. *Port.* (N. BPL. 2800.21; 6098.51)

139. — *The same.* 2d ed. London, Chapman and Hall. 1867. 8°. *Port.* Dn. 37.1

"Manuscripts and editions. — Comments and translations," pp. xiii.-xxxviii.

Portrait: — "Engraved by R. Young." A delicately engraved, reduced copy of Morghen's portrait.

140. — The vision; or, Hell, Purgatory, and Paradise. Translated by H. F. CARY. 2d ed. corrected. With the life of Dante, additional notes and an index. 3 vol. London, *Taylor and Hessey*. 1819. 8°. Dn. 37.2
141. — *The same*. 8d ed. 3 vol. London, *John Taylor*. 1831. 16°. Dn. 37.2.2
In this 8d edition the notes are collected at the end of each volume instead of being placed at the foot of each page as in earlier editions.
142. — *The same*. Illus. with 12 engravings, from designs by John Flaxman. From the last corrected London ed. New York, *Appleton*. 1845. 16°. *Port.* and *plates*. (BPL. 6099.59)
Portrait. — By Giotto.
143. — Divine comedy. Translated in the original ternary rhyme by C. B. CATLEY. 4 vol. London, *Longman, Brown, Green, and Longmans*. 1851-55. 16°. Dn. 37.3 (BPL. 4800.23)
i. The vision of hell. 1851. — ii. The purgatory. 1853. — iii. The paradise. 1854. — iv. Notes. 1855.
144. — The Inferno, translated in the terza rima of the original, with notes and appendix, by JOHN DAYMAN. London, *W. E. Painter*. 1848. 12°. Dn. 38.1
145. — The divine comedy. Translated in terza rima by JOHN DAYMAN. *Ital.* and *Eng.* London, *Longmans*. 1865. 8°. (BPL. 4790.38)
146. — Divine comedy: the Purgatorio. A prose translation by the late W. S. DUGDALE, with the text as edited by Brunone Bianchi, and with explanatory notes. London, *George Bell & sons*. 1883. sm. 8°. (Bohn's collegiate series.) Dn. 38.2 (BPL. 2798.59)
"Undertaken in the hope that it might serve as a companion volume to the translation of the Inferno by Dr. John Carlyle."
147. — The Inferno. Translated into English verse, with notes, by E. R. ELLABY. Cantos i.-x. London, *Bickers and son*. 1874. 8°. pp. (4), viii., 75. Dn. 39.1
148. — The Inferno translated in the metre of the original by JAMES FORD. *Ital.* and *Eng.* London, *Smith, Elder and co*. 1865. sm. 8°. *Port.* Dn. 40.1 (BPL. 4790.57; 2798.50)
Portrait. — "An exact fac-simile of the engraving prefixed to the rare and beautiful Giotto edition of the Commedia (Venice, 1665). The resemblance it bears to Giotto's famous fresco is very striking." — *Preface*, p. xvi.
149. — The divine comedy. Translated by H. W. LONGFELLOW. [With notes and illustrations.] 3 vol. Boston, *Ticknor and Fields*. 1867. 4°. Dn. 46.1; 38.32 (BPL. *4790.3)
Illustrations, being extracts from the writings of Voltaire, Rivarol, A. de Lamartine, Edgar Quinet, Ozanam, Lamennais, Labitte, Stehelin. iii. 387-424.
150. — *The same*. 3 vol. London, *G. Routledge*. 1867. 8°. (BPL. 4800.15)
151. — *The same*. Boston, *J. R. Osgood & co*. 1871. 8°. Dn. 46.1.3 (BPL. 4796.3; 4794.3)
*Also a paraphrase of part of canto xxi. of the Paradiso, signed L., from the *Boston daily advertiser*; and a translation of cantos xxiii., xxiv., and xxv. from the *Atlantic monthly* of Jan., 1864. Dn. 46.1.4
152. — The divine comedy; translated verse for verse from the original into terza rima, by J. I. MINCHIN. [With introduction and notes.] London, *Longmans, Green, and co*. 1885. 8°. Dn. 47.1 (BPL. 2798.60)
"The obligations of Dante to Virgil." pp. lvi.-lxxvi.
153. — The first ten cantos of the Inferno. Newly translated into English verse [by T. W. PARSONS]. Boston, *William D. Ticknor*. 1843. 8°. *Port.* pp. 83. 38.49; 38.128; Dn. 50.1.3 (BPL. 2802.17)
Portrait. — Profile in outline of a bust. "D. C. Johnson sc."
154. — Seventeen cantos of the Inferno. [Translated by T. W. PARSONS.] Boston, *John Wilson and son*. 1865. 4°. Dn. 50.1.6 (BPL. 4795.18)
155. — The first canticle, Inferno, of the Divine comedy. Translated by T. W. PARSONS. Boston, *De Vries, Ibarra, and co*. 1867. 4°. *Port.* and 75 *plates*. 38.48; Dn. 50.1.2 (BPL. *4790.49; 4790.50)
The portrait and illustrations are reduced copies of Doré's designs. They are wanting in one copy [38.48].
156. — The antepurgatorio [cantos i.-ix.]. Translated by T. W. PARSONS. London, *Hatchards*. 1876. 4°. Dn. 50.1.7
*Also, parts of canto xxvi. of the Inferno, giving the story of Ulysses, from the *Galaxy* of Aug., 1866, with corrections in the translator's hand [Dn. 50.1.9]; canto xxi. of the Purgatorio, from the *Catholic world* of Dec., 1881 [Dn. 50.1.8]; and proof-sheets of cantos xx. and xxx. of the Purgatorio, accompanied by autograph letters of the translator [Dn. 50.1.8].
157. — Hell. Cantos i. to x. A literal metrical translation; with notes. By J. C. PEABODY. Boston, *Ticknor and Fields*. 1857. 12°. pp. xci. [87]. Dn. 50.4
A line-for-line, literal translation in blank verse.
158. — The divine comedy. Inferno. Translated [in "terza-rima"] by WARBURTON FINE. London, *C. Kegan Paul & co*. 1881. 8°. Dn. 50.2 (BPL. 2798.56)
159. — The Divina commedia. Samples of a new translation by E. H. PLUMPTRE. London, etc., *Cassell, Petter, Galpin & co*. 1883. 12°. pp. 24. Dn. 50.3
Canto i.-iv.; v. (Francesca di Rimini); xxxiii. (Ugolino).
160. — The divine comedy; or, The Inferno, Purgatory, and Paradise. Rendered into English by FREDERICK POLLOCK. London, *Chapman and Hall*. 1854. 8°. *Front., vign.* and *wdcts.* (N.)
"Notice of Dante from Giovanni Villani, Florentine chronicles, book ix. chap. 126," pp. xi.-xiv.
161. — Divina commedia. Translated into English, in the metre and triple rhyme of the original. With notes. By MRS. [C. H.] RAMSAY. 3 vol. London, *Tinsley brothers*. 1862-63. 16°. Dn. 52.1
162. — The comedy. Part 1. The Hell. Translated into blank verse by W. M. ROSSETTI, with introductions and notes. London, etc., *Macmillan and co*. 1865. 16°. Dn. 52.2 (BPL. 4790.55)
"The aim of this translation may be summed up in one word—literality." — *Preface*.

163. — The divine comedy. A translation by J. R. SIBBALD. [Vol. i. The Inferno.] Edinburgh, *David Douglas*. 1884. 8°. *Port.* Dn. 53.1 (BPL. 2792.54)

With a special title-page.
"Florence and Dante." pp. xvii.-cix. "Giotto's portrait of Dante." pp. cx.-cxix.
Portrait: — Giotto's portrait, from the photograph of Seymour Kirkup's sketch given in the third volume of Lord Vernon's edition of the Inferno.

164. — The trilogy, or Dante's three visions. — Inferno, or The vision of hell: translated into English, in the metre and triple rhyme of the original; with notes and illustrations. By J. W. THOMAS. London, *H. G. Bohn*. 1859. 8°. *Front. and vign.* Dn. 54.1

"A sketch of the life and times of Dante." pp. xxiv.-xl.
"On the religious opinions of Dante." pp. xli.-xlvii.
"The time of Dante's vision." pp. xlviii.-l.

165. — A free translation, in verse, of the "Inferno," with a preliminary discourse and notes. By BRUCE WYTHE. London, *Wright and co.*, etc. 1859. 8°. Dn. 57.1

166. — Divina commedia. The Inferno, translated [in blank verse] by W. P. WILKIE. Edinburgh, *Edmonston and Douglas*. 1862. 16°. Dn. 57.2 (BPL. 4800.22)

167. — Dante, translated into English verse by J. C. WRIGHT. 3d ed. London, *Bohn*. 1855. sm. 8°. *Port.* and 34 engrav. (BPL. *G. 206.9)

168. — *The same*. 4th ed. London, *Bohn*. 1861. sm. 8°. *Port.* and 34 engrav. (BPL. 2800.22)

The engravings are after designs by Flaxman. Each vol. has also an engraved title-page bearing the date, 1854.
Portrait: — A copy of Morghen's, reduced.

French.

169. — La comédie de Dante, traduite en vers selon la lettre, et commentée selon l'esprit, suivie de la Clef du langage symbolique des fidèles d'amour par É. AROUX. 2 tom. (paged contin.). Paris, *héritiers Jules Renouard*. 1856. 8°. Dn. 60.1

"L'hérésie de Dante démontrée par Francesca de Rimini. Preuves supplémentaires." il. 1259-1300.

"Arrêté de compte avec la critique." il. 1301-1327.

"Appendice." il. 1329-1341.

"Clef de la Comédie de Dante." pp. 33.

170. — La divine comédie, traduite en français par AETAUD DE MONTOR. 3^e éd. Paris, *F. Didot frères*. 1849. 12°. Dn. 60.2
A prose translation, first published in 1811-13.

171. — Œuvres. — La divine comédie, traduction de A. BRIZEUX. — La vie nouvelle, traduction de E. J. DELÉCLUZE; nouvelles éditions revues, corrigées et annotées par les traducteurs. Accompagnées de notes et commentaires et d'une Étude sur la Divine comédie par C. Labitte. Paris, *Charpentier*. 1853. 12°. Dn. 61.1 (BPL. 2809.50)

Prose translations.

172. — Œuvres. La divine comédie — l'enfer, le purgatoire, le paradis — traduction nouvelle, précédée d'une introduction contenant la vie de Dante et une clef générale du poème par SÉBASTIEN RHÉAL [GAYET DE CESENA]. Avec

des notes d'après les meilleurs commentaires par Louis Barré. Illustrations de Antoine Etex. Paris, *J. Bry aîné*. 1854. 1. 8°. Dn. 62.1
"Dante, sa vie, son époque et ses ouvrages," pp. 5-19.

173. — La divine comédie, contenant la description de l'enfer, du purgatoire et du paradis. [Translated into prose by COLBERT COMTE D'ESTOUTEVILLE.] 3 tom. in 1. Paris, chez *Sallior, successeur de Didot jeune*. 1796. 8°. Dn. 64.1
"È tenuta inessatissima." — Colomb de Batines, l. 253.

174. — La divine comédie, traduction nouvelle [prose] accompagnée de notes par P. A. FIORENTINO. 6^e éd. Paris, *L. Hachette et cie*. 1858. 18°. Dn. 65.1

175. — L'enfer; avec les dessins de Gustave Doré. Traduction française de PIER-ANGELO FIORENTINO, accompagnée du texte italien. [With notes.] Paris, *Hachette et cie*. 1861. f°. *Port.* and 75 plates. (BPL. *2800.3)

176. — *The same*. Paris, *Hachette et cie*. 1862. f°. *Port.* and 75 plates. 38 Case
Portrait: — "G. Doré, 1860. Pannemaker sc." 12 × 9½ in.

177. — Le purgatoire; avec les dessins de Gustave Doré. Traduction française de PIER-ANGELO FIORENTINO, accompagnée du texte italien. [With notes.] Paris, *Hachette et cie*. 1868. f°. 42 plates. (BPL. *4790.15)

178. — *The same*. Paris, *Hachette et cie*. 1872. f°. 42 plates. 38 Case

179. — Le paradis; avec les dessins de Gustave Doré. Traduction française de PIER-ANGELO FIORENTINO, accompagnée du texte italien. [With notes.] Paris, *Hachette et cie*. 1868. f°. 18 plates. (BPL. *4790.15)

180. — *The same*. Paris, *Hachette et cie*. 1872. f°. 18 plates. 38 Case

181. — Dante traduit en vers, par stances correspondantes aux tercets textuels, sur un texte nouveau quant au choix des variantes et au mode de ponctuation; dédié au roi par J. A. DE GOURBILLON. L'enfer. Paris, *Auguste Aufray*. 1831. 8°. Dn. 66.2
No more was published.

182. — La comédie de Dante, de l'enfer, du purgatoire & paradis, mise en ryme française et commentée par M. B. GRANGIER. 3 tom. À Paris, pour *L. Drobet*. 1596. 24°. *Port.* of Henry IV. Dn. 66.1

183. — *The same*. [Tom. i.] À Paris, chez *Jehan Gesselin*. 1597. 24°. Dn. 66.1.2

Contents: — L'enfer, ov premier cantique de la Comédie de Dante.

"Prima traduzione francese a stampa, dedicata al re Enrico IV., poco stimata, ma ricercata moltissimo." — Colomb de Batines, l. 250.

The title-page is engraved by Thomas de Leu and contains a medallion of Dante.

Identical, except as to the imprint of the title-page, with the last. Colomb de Batines describes this edition only and doubts the existence of the other. The portrait of Henry IV. is wanting.

184. — L'enfer. Traduit en vers français [par] AMÉDÉE JUBERT. Paris, *Berger-Levrault & cie*. 1874. 16°. Dn. 69.1

185. — La divine comédie. [A prose translation.] Précédée d'une introduction sur la vie, les doctrines et les œuvres du Dante. *Ital. and Fr.* 3 vol. *Port.* and 3 plates. (In LAMENNAIS, (H.) F. (R. DE), l'abbé. Œuvres posthumes. Paris, *Paulin et LeChevalier*. 1855. 8°) Dn. 71.1 (BPL. 2676.3)
Portrait: — A woodcut, artist's name not given, but copied from Morghen's engraving.
186. — L'enfer mis en vieux langage françois et en vers, accompagné du texte italien et contenant des notes et un glossaire par E. LITTRÉ. Paris, *Hachette et cie*. 1879. 16° (BPL. 2798.52)
187. — La divine comédie. Traduction nouvelle [prose] par [J. A.] MESNARD. *Ital. and Fr.* 3 vol. Paris, *Amyot*. 1854-57. 8° Dn. 72.2
 Italian text on the left, French prose translation on the right. With notes by Léonce Mesnard.
188. — La divine comédie, l'enfer; traduction française [prose], accompagnée du texte, de notes historiques, critiques, & de la vie du poète. Par MOUTONNET DE CLAIRFONS. Florence, etc., *Le Clerc, Le Boucher*. 1776. 8° Dn. 72.1
189. — Le purgatoire: traduction [prose] et commentaire, avec texte en regard par A. F. OZANAM. (In OZANAM, A. F. Œuvres complètes, 2^e éd., 1862, 8°, ix.) 10562.11; Dn. 74.1
190. — L'enfer, traduit en vers, texte en regard, par LOUIS RATISBONNE. 2^e éd. 2 tom. Paris, *Michel Lévy frères*. 1859. 18° Dn. 77.1
191. — Le purgatoire, traduit en vers par L. RATISBONNE. *Ital. and Fr.* 2 tom. Paris, *Michel Lévy frères*. 1856. 18° Dn. 77.1.2
192. — Le paradis, traduit en vers par L. RATISBONNE. *Ital. and Fr.* 2 tom. Paris, *Michel Lévy frères*. 1860. 18° Dn. 77.1.3
193. — L'enfer, traduction nouvelle [par ANTOINE RIVAROLI, dit COMTE DE RIVAROL]. *Ital. and Fr.* 2 pt. Londres, etc., *P. Fr. Didot le jeune, etc.* 1785. 8° Dn. 77.2
 A prose translation.
194. — La divine comédie. Traduction nouvelle [prose] accompagnée de notes et précédée d'un résumé historique et littéraire sur les temps antérieurs au poème et d'une notice sur Dante et sur ses écrits par VICTOR DE SAINT-MAURIS. 2 tom. Paris, *Amyot*. 1853. 8° Dn. 78.1
 i. Résumé historique et littéraire. Dante et ses écrits. L'enfer. — ii. Le purgatoire. Le paradis.
195. — L'enfer, traduit en français [prose], accompagné de notes explicatives, raisonnées, et historiques, suivies de remarques générales sur la vie de Dante, et sur les factions des Guelfes et des Gibelins. Par J. C. TAYLER. *Ital. and Fr.* 2 tom. Londres, *C. Knight*, etc. 1824. sm. 8° Dn. 79.1
 i. Text and translation.
 ii. Notes, etc.
196. — Études sur la langue italienne par HIPPOLYTE TOPIN. [With text, and translation in Alexandrine verse, of Purg. i., x., xii.; Parad. i., ii., vi., xxxiii.] Florence, *typog. galiléenne de M. Cellini et c.*, etc. 1855. 8°
 See Topin, H. Études, etc. Dn. 79.2
197. — La divine comédie. 1^{er} chant de l'Enfer; 3^e, 10^e, 24-26^e du Paradis, traduits en vers français avec notes par HIPPOLYTE TOPIN. Catane, *typog. de l'hospice royal de bienfaisance*. 1857. 8° pp. 36. Dn. 79.2.2
198. — La divine comédie. 11^e, 12^e, 23^e chantes du Paradis, traduits en vers français, faisant suite aux chants précédemment publiés par HIPPOLYTE TOPIN. Florence, *typog. galiléenne de M. Cellini et c.*, etc. 1857. 8° pp. 28. Dn. 79.2.2
 German.
199. — Von der hölle: aus dem italienischen übersetzt und mit anmerkungen begleitet von L. BACHENSWANZ. 2^e aufl. Leipzig, *auf kosten des uebersetzers*. 1767. 8° *Port.* Dn. 86.1
200. — Von dem fegfeuer. Aus dem italienischen übersetzt und mit anmerkungen begleitet von L. BACHENSWANZ. Leipzig, *auf kosten des uebersetzers*. 1768. 8° Dn. 86.1
 "Prima traduzione tedesca di tutta intiera la Divina commedia. La traduzione è in prosa, poco fedele e senza gusto."
 — Scartazzini, *Dante in Germania*, ii. 194.
Portrait: — "Ex pinacotheca comitis Danielis Lieca, patricii veronensis, pictus quondam a Bernardino Indis celebri pictore. J. M. Stock fecit."
201. — Göttliche comödie; 1^o abth. Neu metrisch übertragen mit erläuterungen von R. BARON. Oppeln, *A. Reisswitz*. 1870. 8° Dn. 86.2
 Contents: — Die hölle. No more published.
202. — Die göttliche komödie. Uebersetzt und erläutert von L. G. BLANC. Halle, *buchh. d. waisenhauses*. 1864. 8° *Port.* Dn. 86.3
 In blank iambic verse.
Portrait: — "Julius Thaeter sculp." This shows a striking resemblance to his engraving of the portrait attributed to Masaccio, published in the Jahrbuch d. Dante gesellschaft, vol. 2.
203. — Die göttliche komödie. Für das deutsche volk bearbeitet von JULIUS BRAUN. 1^{er} bd. Berlin, *Th. Chr. Fr. Enslin (Adolph Enslin)*. 1863. 8° Dn. 86.4
 Contents: — Der dichter und seine zeit. — Die hölle. A metrical rhymed translation. No more published.
204. — Aus Dante. Probe einer neuen uebersetzung von ADOLF DOERR. [Inferno. vi. 100-130; xxxiii. 1-88. Leipzig. 1865.] 1.8° pp. (8). Dn. 88.1
Deutsches museum, 25. mai, 1866, pp. 747-749.
205. — Göttliche komödie. In iamben übertragen von KARL EITNER. 3 theile in 1 vol. Hildburghausen, *verlag des bibliogr. instituts*. 1865. sm. 8° (Bibliothek ausländischer klassiker, 8-10.) Dn. 89.1
 "Dante's leben und werke." pp. v.-xxxii.
206. — Göttliche komödie. In deutsche prosa übertragen, mit inhaltsangabe und erläuterungen versehen, von K. VON ENK. 2^e verbesserte aufl. 3 theil in 1 vol. Wien, *Wihelm Braumüller*. 1877. 16° Dn. 89.2

207. — Dante Alighieri's Hölle. Gerau nach dem vermasse des originals in deutsche reime übertragen und mit anmerkungen versehen von JULIUS FRANCKE. Leipzig, *Breitkopf u. Härtel*. 1883. 8°. *Diags.* Dn. 90.1
208. — Göttliche komödie in's deutsche übertragen und historisch, ästhetisch und vornehmlich theologisch erläutert von KARL GRAUL. 1^{er} theil. Die hölle. Leipzig, *C. F. Dörffling*. 1843. 8°. Dn. 91.1
No more published.
209. — Die göttliche komödie oder Wallfahrt durch die drei geister-reiche, hölle, fegfeuer und paradies, frei übersetzt und mit anmerkungen versehen von J. F. HEIGELIN. 3 theile. Blaubeuren, *F. M. Mangold*, etc. 1886-37. 8°. *Port.* and 6 *plates*. Dn. 92.1
The plates are copies of Flaxman's outlines.
Portrait: — "Nach dem leben gemahlt von Bernardino India. A. Zschokke sculp."
210. — Göttliche comödie. Zur jubelfeier des dichters metrisch übersetzt von JOS[EPH] VON HOFFINGER. Bd. i., ii. 2 bde. Wien, *W. Braumüller*. 1865. sm. 8°. Dn. 92.2
1. Die hölle. — ii. Das purgatorium.
211. — Goettliche comödie. Metrisch übertragen und mit kritischen und historischen erläuterungen versehen von PHILALETHES [JOHN, KING OF SAXONY]. 3 vol. Dresden, etc., *Arnold*. 1849. 4°. *Fronts., maps, plates and plans*. (N.)
Each vol. has a separate, engraved title-page.
Vol. I. and II. are "2^e vermehrte auflage. 2^e ausgabe."
212. — *The same*. Neue, durchgesehene und berichtigte ausgabe. 3 vol. Leipzig, *B. G. Teubner*. 1865-66. 8°. *Port., maps and plans*. (BPL. 4790.26)
213. — *The same*. 2^{me} unveränderter abdruck der berichtigten ausg. von 1865-66. 3 vol. Leipzig, *B. G. Teubner*. 1871. 8°. *Port., maps and plans*. Dn. 94.1
Portrait: — "Gemalt von Giotto. Gest. v. Weger, Leipzig."
214. — Die göttliche komödie; übersetzt und erklärt von K. L. KANNegiesser. 4^{te} sehr veränderte aufl. 3 theile in 1 vol. Leipzig, *F. A. Brockhaus*. 1843. 12°. *Port., map and 3 diags.* (Bibliothek der classiker des auslands, 23-25.) Dn. 95.1
In ternary rhyme.
Portrait: — A profile from the mask. "Gest. von Siegert, gest. von Roßmaler."
215. — Die göttliche komödie. Metrische uebersetzung nebst beigedrucktem originaltexte, mit erläuterungen, abhandlungen und register. Von AUGUST KOPISCH. Berlin, *Enslin'sche buchh.* 1842 [1887-42]. 1. 8°. *Port.* and 2 *plans*. Dn. 95.2
"Dante's leben." pp. 419-467.
"Ueber die Göttliche komödie." pp. 467-498.
Portrait: — A copper-plate engraving copied from Raffael Morghen's portrait.
216. — Die göttliche komödie. Metrische übersetzung mit erläuterungen, abhandlungen und register. Von AUGUST KOPISCH. 2^{te} verbesserte ausg. Berlin, *J. Guttentag*. 1862. 8°. *Port.* and *plans*. Dn. 95.2.2
"Dante's leben." pp. 483-567.
"Ueber die Göttliche komödie." pp. 567-621.
Portrait: — The same plate as in the last.
217. — Göttliche komödie. Uebersetzung, kommentar und abhandlungen über zeitalter, leben und schriften Dante's. Von AUGUST KOPISCH. 3^e aufl., durchaus revidirt, berichtigt und ergänzt von Theodor Paur. Berlin, etc., *verlag von J. Guttentag (D. Collin)*. 1882. 8°. *Portrs.* Dn. 95.2.3
"Bibliographische einleitung." pp. 557-561. "Dante's leben." pp. 562-651. "Ueber die Göttliche komödie." pp. 652-713.
Portraits: — Helotype of the bronze bust in the museo borbonico in Naples. — Helotype of Giotto's fresco, and of a bronze medal of the latter half of the 15th century.
218. — Die zwei ersten gesänge von Dante's Hölle. Uebersetzt und besprochen von FRIEDRICH NOTTER. Stuttgart, etc., *August Schaber*. 1869. 8°. Dn. 98.1
219. — Göttliche komödie. Uebersetzt und erläutert von KARL STRECKFUS. 3^e ausg. letzter hand. 3^e aufl. Braunschweig, *C. A. Schwetschke und sohn*. 1853. 1. 8°. Dn. 103.1
In triple rhyme.
220. — *The same*. Mit berichtigter uebertragung und völlig umgearbeiteter erklärungs neu herausg. von Dr. Rudolf Pfeiderer. Leipzig, *P. Reclam jun.* [1876.] 16°. (Universalbibliothek. 796-800.)
(BPL. no. 4 in 4907.50.84)
221. — *The same*. Neu bearbeitet und mit einer historisch-biographischen einleitung versehen von Otto Roquette. 2 vol. Stuttgart, *J. G. Cotta*. [1882.] 16°. *Portr.* (BPL. 2798.58)
Portrait: — "Nach dem freskobilde im palazzo del Bargello in Florenz."
222. — Die komödie. Uebersetzt und mit begleitendem commentar herausgegeben von ALEXANDER TANNER. 1^e, 2^e lief. München, *E. A. Fleischmann's buchh.* 1865. sm. 8°. Dn. 104.1
Contents: — I, II. Die hölle.
Translated in triplets.
223. — Göttliche komödie; uebersetzt von KARL WITTE. Berlin, *R. L. von Decker*. 1865. 1. 8°. *Port.* (N. BPL. 4790.25)
224. — *The same*. Berlin, *R. L. von Decker*. 1865. 82°. *Port.* (BPL. 4800.34)
In blank verse, with notes, and an introduction of 33 pages.
Portrait: — A photograph from a very carefully made drawing "nach Raphael."
225. — Der fünfte gesang der Hölle in 22 uebersetzungen seit 1763 bis 1865. Zusammengestellt von REINHOLD KÖHLER. Weimar, *Hermann Böhlau*. 1865. 8°. (Dante's Göttliche komödie und ihre deutschen uebersetzungen.) Dn. 109.1 (BPL. 4800.33)

Greek.

226. — Inferno, translated into Greek verse [with notes] by MUSURUS PASHA. London, etc., *Williams and Norgate*. 1882. 8°.

Dn. 112.1 (BPL. 2792.51)

Also with a title-page in Greek.

227. — Purgatorio, translated into Greek verse [with notes] by MUSURUS PASHA. London, etc., *Williams and Norgate*. 1884. 8°.

Dn. 112.1.2

Also with a title-page in Greek.

Italian Dialects.

228. — L' inferno esposto in dialetto milanese da F. CANDIANI. Milano, *Crist. Candiani*. 1860. 8°.

Dn. 113.2

229. — Saggio di traduzione in dialetto veronese della Divina commedia. [Inf. i. — Purg. i. — Parad. i. By ANTONIO GASPARI.] Verona, *Antonio Rossi*. 1865. 8°. pp. 68.

Dn. 113.3

230. — Il Dante popolare, o La divina commedia in dialetto napolitano per DOMENICO JACCARINO. [Vol. i. 'Nferno.] Napoli, *tipografia dell' unione*. 1870 [1871]. 8°. Dn. 113.4

Appendice: — Giudizi, esami critici, polemiche sulla traduzione del Dante per Dom. Jaccarino.

231. — Il paradiso; versione in dialetto calabrese e commento per FRANCESCO LIMARZI, 1^a ed. Castellammare, *tipog. Stabiana*. 1874. 1. 8°. *Front.*

Dn. 113.1

232. — Il primo canto dell' Inferno tradotto in lingua pavana. Dolo, *tipog. Longo*. 1882. 8°. pp. 10.

Dn. 149.7

Latin.

233. — Della commedia trasportata in verso latino eroico da CARLO D' AQUINO della compagnia di Gesù. Coll' aggiunta del testo italiano e di breve annotazioni. *Lat. and Ital.* 3 vol. Napoli, *Felice Mosca*. 1728. 8°.

Dn. 114.2

"L' opera era stata impressa in Roma e lo stampatore si chiamava Pietro Bernabò, ma poiché fu giudicata contentarsi d' una permissione *extra urbem* (L. 15), si dovette porre sul frontispizio la falsa indicazione di Napoli.

Questa traduzione è in grande stima, come molto fedele ch' ella è ed anche elegante è piena di bellissimi versi." — Colomb de Batines, i. 244.

234. — L' inferno o sia La prima cantica della Divina commedia tradotto e schiarito a senso preciso di frase in versi eroici latini corrispondenti dal dottore ANTONIO CATELLACCI. *Lat. and Ital.* Pisa, presso *Ranieri Prosperi*. 1819. 8°. Dn. 114.3 (BPL. **E. 227.2)

235. — Polyanthea. Opus suavisissimis floribus exornatum compositum per DOMINICUM NANUM MIRABELLIUM. Addita nunc primum est latina interpretatio versuum Dantis & Petrarchæ quos ipsi Italico idiomate cōscripserunt. In Libera Argentina, apud Matthiam Schurerium. [1517.] f°. ff. ccxxiii. (BPL. *.*4930.51)

In this topical collection of quotations from a variety of authors brought together by Domenico Nani, are included many extracts from Dante in Italian followed by a Latin translation.

236. — Divina comoedia hexametris latinis redita ab abbate DALLA PIAZZA. Praefatus est et vitam Piazzae adiecit C. Witte. Lipsiae, *Ioan. Ambros. Barth.* 1848. 8°. Dn. 114.1

237. — La morte del conte Ugolino. [Inf. xxxiii.] Versione latina inedita di MATTEO RENTO veneziano, monaco olivetano del secolo xv. [Edited by E. A. Cicogna.] Venezia, *tipog. Gaspari*. 1865. f°. pp. 8. Dn. 114.4

An account of Rento and of the manuscripts of his work is given in Colomb de Batines, i. 237-241.

238. — Ugolini comitis mors. (Inf. xxxiii.) — Francisci Ariminensis. (Inf. v.) — Matelda. (Purg. xxviii.) [Translated into Latin by] L. DELLA VECCHIA. (In OMAGGIO a Dante. 1865, 8°, pp. 517-527.)

Dn. 561.4

Polish.

239. — Boska komedia, przekład A. STANISŁAWSKIEGO. Poznań, etc., *J. K. Zupańskiego*. 1870. 8°. Dn. 115.1

Spanish.

240. — La divina comedia con notas de Paolo Costa, adicionadas, traducidas al castellano por MANUEL ARANDA y SANJUAN. Barcelona, *empresa editorial La ilustracion*. 1871. 8°. *Port. and plates.* (ORELLANA, F. J. Los grandes poemas. 1.)

Dn. 118.1

A prose translation.

Portrait: — Woodcut copy of Giotto's.

241. — La traduciō del dante | de lengua toscana en verso castellan: por el reuerēdo don po | FERNÁNDEZ DE VILLEGAS arcediano | de burgos: y por el comentado | allende d' los otros glosadores. | [Appendix: — Breue tratado . . . | intitulado. Auersion del mūdo y cōuerſion a dios. — Querella dela fe comēçada por | diego de burgos y acabada anediēdo entre sus verſos lo que conuenia y prosiguiēdo la adelante por | dō pero fernández de villegas. — Satira dezena del juenal. . . | Traduzida por dō georſimino de villegas. | Colophon: —] Burgos por Fadric | aleman de Basilea . . . | del año . . . de mill y | quinientos y quinze años. [1515.] f°. (8) ff. 332. *Plate.*

(BPL. **D. 240b.46)

Ends with the Inferno. The last leaf is supplied in ms.

"As far as I have examined this commentary, it is taken from Landino's, first printed 1481. Juana de Aragon, to whom it is dedicated at the beginning, was dead before the printing was finished, 2 April, 1515. See opening of canto xxxiv. Navarrete, therefore, is wrong, following Giannone, in exhibiting her among the personages at the brilliant court of Charles V., at Naples, in the winter of 1535-8. Documents ineditos de Salvá y Baranda, tom. xvi., 1850, p. 60." — "I have never seen it marked less than £20. Sometimes I have seen it £25." — ms. notes by Mr. Ticknor, to whom the book belonged. "A very rare book, and one of considerable merit." Ticknor. *History of Spanish literature*.

The Auersion del mundo, etc., is found in a few copies only.

Swedish.

242. — Gudomliga komedi. Öfversatt af NILS LOVÉN. 3 del. Lund, *C. W. K. Gleerup*. 1856-57. 12°. Dn. 119.1

1. Helvete. 1856. — II. Skitvælden. 1857. — III. Paradiset. 1857.

A prose translation, with introductions of some length and notes.

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No. 8.



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- *7. JAMES M. PEIRCE. References in Analytic Geometry,
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. The present list has been mainly prepared by Miss K. V. Smith, formerly of the Library Staff.

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. The papers were given, July 24, 1827, to this Library by RICHARD HENRY LEE, author of the lives of RICHARD HENRY LEE and ARTHUR LEE, and are bound in eight volumes. The numbers represent the pages of the volumes.

VOL. I.

1. **Gooch, Sir William, (Gov. of Va.).** *June 17, 1744.* Letter to [Thomas Lee]. The Indian council at Lancaster, Penn. ff. (2).
2. **Copy of orders.** *April 23, 1760.* Court-martial upon Lord George Sackville for disobedience of the orders of Prince Ferdinand of Brunswick at the battle of Minden. f. (1).
- Lee, Arthur.** *Nov. 5, 1763.* Letter to his brother [Philip Ludwell Lee?] The political situation of England and the produce of Virginia. ff. (2).
- 3, 4. **Massachusetts Bay — House of Representatives.** *Nov. 28, 1764.* Copy of letter sent to Jasper Mauduit and afterwards to Richard Jackson, agents in London for the province. Reasons why Great Britain would gain nothing by the tax on molasses, etc. ff. (3).
5. **Massachusetts Bay, Rhode Island, Providence Plantations, New Jersey, Pennsylvania, Governments of New Castle, Kent and Sussex upon Delaware, and Maryland.** *Oct. 25, 1765.* Copy of memorial to parliament against the stamp act. ff. (2).
6. **Massachusetts Bay — House of Representatives.** *Nov. 7, 1765.* Letter to Dennis De Berdt. His appointment as special agent in London for the province. Signed, "Sam^l White Spkr." ff. (2).
Printed, with a few verbal changes, in *Massachusetts Papers*, p. 4, published in 1856 by the Seventy-six Society, Philadelphia.
7. **Extracts from three letters on the situation of affairs in America.** Indorsed "1766." f. (1).
The first is from William Donaldson of New York, and written on a slip attached to the sheet on which the others are. The last two are addressed, "My Lord," and are in a different hand.
8. **New Jersey — House of Assembly.** *June 14, 1766.* Order for thanks to be given to Dennis De Berdt "for his Assiduity and Attention to the Affairs of the Colonys During the Application for a Repeal of the Stamp Act." Signed, "Jona. Deare Clk." f. (1).
For the letter of thanks, see 11.
- Massachusetts Bay — House of Representatives.** *June 20, 1766.* Resolution for letter of thanks to be sent to William Pitt for his efforts toward the repeal of the stamp act. Signed, "Sam^l Adams Cler." f. (1).
Printed, *Bradford's Massachusetts State Papers*, p. 92. For letter of thanks, see 10.
9. **Massachusetts Bay — House of Representatives.** *June 21, 1766.* Note to Charles, Lord Camden, transmitting vote of thanks for his patronage of the colonies. Signed, Thomas Cushing Speaker. f. (1).
— — — *June 21, 1766.* Note to George, Lord Pomfret, for the same purpose. Same signature. f. (1).
For the accompanying vote of thanks, see 13.
10. — — — *June 21, 1766.* Letter of thanks to William Pitt, referred to under 8. Same signature. ff. (2).
11. **New Jersey — House of Assembly.** *June 22, 1766.* Letter of thanks to Dennis De Berdt, referred to under 8. Signed, Cortland Skinner Speaker. ff. (2).
12. **Massachusetts Bay — House of Representatives.** *June 28, 1766.* Letter of thanks and instructions to Dennis De Berdt. Signed, Thomas Cushing Spkr. ff. (2).
Printed, with a few orthographical changes and one additional sentence, in *Massachusetts Papers*, p. 14, published in 1856 by the Seventy-six Society, Philadelphia.
13. — — — *June 30, 1766.* Vote of thanks to George, Lord Pomfret, referred to under 9. Signed, "Sam^l Adams Cler." f. (1).
14. **Boston — Committee of the Town.** *Oct. 26, 1766.* Draft of part of a letter to Dennis De Berdt. Search of Daniel Malcom's house by the custom-house officers in October, 1766. f. (1).
Composed by Samuel Adams. See Wells' *Life of Samuel Adams*, I. 130. For the full letter, see 25.
- 15-19. **Copy of a copy of depositions, Sept. 24-Oct. 1, 1766,** sworn before Gov. Bernard's council, in the case of Daniel Malcom's resistance to the search of his house by the deputy-collector William Sheafe, under the "writs of assistance." Depositions by William Sheafe, Benjamin Hallowell, John Ruddock, John Tudor, William Nickels, William Wimple, Nathaniel Barber, John Baker and Stephen Greenleaf, attested by John Cotton, deputy-secretary. Copy certified by William Cotton, town clerk. pp. 18. (Pp. 5-18 are imperfect — torn.)
After a copy of the depositions was at last received from the governor's council, the present copy was probably made by order of the town, to be sent to its agent in England. See Wells' *Life of Samuel Adams*, I. 130; Drake's *History of Boston*, p. 737. — For the evidence before the town, see 22.
20. **Downe, Samuel.** *Sept. 26, 1766.* Letter to Dennis De Berdt. Private business. ff. (2). (Imperfect — torn.)

21. **Ashley**, Joseph and Jonathan, and **Woodbridge**, Timothy. Oct. 9, 1766. Letter to Dennis De Berdt, asking his help in establishing an academy at Hatfield, Mass. ff. (2). (Imperfect—torn.)

22. **Copy** of depositions, Oct. 16–20, 1766, by Nathaniel Barber and William Nickels, sworn before Edmund Quincy. Ringing of the north bell and conduct of the people at the time of the Malcom disturbance mentioned above.—Deposition by William Wimble, Oct. 17, 1766, sworn before Joshua Winslow. Copy attested by William Cooper, town clerk. ff. (4).

For other and contradictory evidence, taken in the governor's interest, see 15–19.

23. **Copy** of deposition, Oct. 21, 1766, by Capt. Daniel Malcom, sworn before Edmund Quincy. Same affair. ff. (2). (Imperfect—first part gone, only last four pages left.)

24. **Boston**. Oct. 8–22, 1766. Two copies of votes of town meeting in reference to the depositions given in the governor's council on the Malcom affair. Attested by William Cooper, town clerk. ff. (2).

25. **Boston**.—*Committee of the Town*. Oct. 26, 1766. Letter to Dennis De Berdt stating the people's version of the Malcom affair and transmitting the depositions given above. Signed, "James Otis pr Order of ye committee." ff. (4.)

Composed by Samuel Adams. See Wells' Life of Samuel Adams, I. 130.—For draft of a part of this letter, written in another hand, see 14.

26. **Deposition**, Dec. 1, 1766, by John Pike, John Lombard, Jr. and Lewis Lombard, Jr., sworn before Barnabas Paine, at Truro, Barnstable Co., Mass. Prevention of fishing in the Straits of Belle Isle by a British man-of-war. f. (1).

27, 28. **Massachusetts Bay**—*House of Representatives*. Dec. 6, 1766. Letter to [Dennis De Berdt], inclosing depositions. Prevention of American fishing and whaling in Newfoundland waters by order of Com. Palliser, gov. of Newfoundland; custom-house officers and regulations. Signed, Thomas Cushing Speaker. ff. (4).

For the depositions, see 29–31.

29–31. **Deposition**, Dec. 9, 1766, by Robert Barker, sworn before Richard Dana. Fishery trouble.—Deposition, Dec. 13, 1766, by Moses Wiley, Cyprian Hinkley and Henry Young, sworn before Belcher Noyes.—Deposition, Dec. 26, 1766, by Thomas Harding, sworn before John Avery. ff. (3).

These were inclosed in the letter above, 27, 28.

32. **New York**—*Presbyterian Church*. Feb. 17, 1767. Petition of the ministers, elders, etc., to Sir Henry Moore, captain-general and governor of New York, for leave to prove facts in a former petition for a charter. Signed, John Rogers, Joseph Treat on behalf of the petitioners. ff. (2).

33–35. **Massachusetts Bay**—*House of Representatives*. March 16, 1767. Letter to Dennis De Berdt. Claim of Lieut.-Gov. Hutchinson to a seat in the council. Signed, Thomas Cushing Spkr. pp. 11.

Composed by Samuel Adams. See Wells' Life of Samuel Adams, I. 135 et seq., where much of the letter is quoted.

36, 37. **Massachusetts Bay**—*House of Representatives*. June 24, 1767. Letter to the same. The fishery trouble in Newfoundland waters; troops in America; the bill for pardon of rioters and compensation of sufferers during disturbances in Boston; paper money; Connecticut and Massachusetts boundary. Signed, Thomas Cushing Spkr. ff. (4).

38. **Sheafe**, Edward. July 1, 1767. Letter from Charlestown to the same. Relations of the colonies with Great Britain; bill for pardon, compensation, etc. (as above, 36, 37). ff. (4). (Imperfect—torn.)

39. **Cushing**, Thomas. Oct. 15, 1767. Private letter to Dennis De Berdt. Imposition of taxes on the colonies; the governor's salary. pp. 8.

40. **Copy** of examination of Robert Hallowell, controller of the port of Boston, at the treasury board in London. July 21, 1768. Seizure of John Hancock's sloop "Liberty." Copy signed, "Jno. Speed." ff. (5).

41. [**Livius** (?), Peter], of New Hampshire. Oct. 18, 1768. Copy of a letter to his brother in London. Quartering troops in America. ff. (4). (Imperfect—torn.)

This letter has no signature, and the name of the writer, given in the indorsement, is torn, so that only "evius" or "evins" is legible.

42. **Boston**—*Selectmen*. Feb. 16–18, 1769. Requesting Gov. Bernard to communicate facts which may have been sent to Great Britain militating against the colonies; with the governor's reply. ff. (2).

Without attestation. Printed, with two names of members different, and with a few verbal changes, in *Massachusetts Papers*, p. 115, published in 1856 by the Seventy-six Society, Philadelphia.

— — — Feb. 23, 24, 1769. Second request for the same purpose, and second reply. ff. (2).

Without attestation. Printed, with a few verbal changes and one additional line, in *Massachusetts Papers*, p. 120, published by the Seventy-six Society, Philadelphia.

43–45. — — — Feb. 25, 1769. Letter to Dennis De Berdt reviewing this correspondence. Signed, Joshua Henshaw, Joseph Jackson, John Rudduck, John Hancock, Samuel Pemberton, Henderson Inches. ff. (6).

46. **Lee**, Arthur. March 23, 1769. Letter from London to his brother [Richard Henry Lee] in Virginia. English and American politics. ff. (2).

47. **Dickinson**, John. April 20, 1769. Letter from Philadelphia to Arthur Lee. The disaffection in America and the unworthiness of many of the colonial representatives in London. ff. (2).

Printed, *Lee's Life of Arthur Lee*, II. 293.

48. — — — June 26, 1769. Letter to the same, on the same subjects. ff. (2).

Printed, *Lee's Life of Arthur Lee*, II. 296.

Massachusetts Bay—*House of Representatives*. July 22, 1769. Notice to Col. Dalrymple of the time for taking depositions relative to the rescue of John Ryley. ff. (2).

49–56. **Depositions**, July 24, 1769, by Jeremiah Belknap, Peter Barbour, Samuel Downe, Joseph Edwards, Thomas Waite Foster, Stephen Greenleaf, Edward Jackson, Edmund Quincy and John Loring, sworn before Richard Dana and Belcher Noyes. Rescue of John Ryley. ff. (13).

57. **Nelson, William.** *Sept. 2, 1769.* Letter from Virginia to Arthur Lee in London. Importing taxed goods, and the line between Virginia and the Cherokees. ff. (2).

58. **Dickinson, John.** *Nov. 25, 1769.* Letter from Philadelphia to Arthur Lee in London. Importing taxed goods. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 297.

Shelburne, W. Petty, Earl of. Letter to Arthur Lee at Bath, England, inviting him to Bowood Park. *No date.* ff. (2).

Printed, Lee's Life of Arthur Lee, II. 353, where it is dated 1769.

59. **De Berdt, Dennis.** 1770. A draft of memorial to the king's council, by the agent of Massachusetts Bay. Reasons for declining to attend the council to support the charges of the province against Gov. Bernard. Interlined, corrected, and not signed. Indorsed, "For Mr. Lewis." ff. (2). (Imperfect—torn.)

60. **Dickinson, John.** *March, 31, 1770.* Letter from Philadelphia to Arthur Lee. Importing taxed goods; Boston massacre. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 299.

61. **Lord Chatham's** motion, petitioning the king to dissolve Parliament and call a new one. A copy. *May 14, 1770.* f. (1).

62. **Massachusetts Bay.—House of Representatives.** [*July 1, 1771.*] Portion of letter of instructions to Benjamin Franklin, agent at London. Gov. Hutchinson's complaint about the preservation of the "king's timber" in the territory of Sagadahoc; request to have the king confirm the grants of townships therein, and of the town of Machias. Signed, Thomas Cushing Speaker. pp. 3-5. (Imperfect—first part gone.)

63. **Lee, William.** *Jan. 20, 1772.* Copy of letter from London to his brother, Francis Lightfoot Lee, on private affairs (dispute with Capt. Walker). ff. (2).

With autograph postscript.

64-75. — *March 3-Nov. 18, 1772.* Eleven letters to the same, mainly on private affairs. ff. (26).

76-79. **Memoire sur les avantages qu'offre le port de Dunkerque au commerce des treize colonies unies de l'Amerique Septentrionale.** *Not dated or signed.* ff. (4).

VOL. II.

1. **Lee, William.** *Jan. 30, 1773.* Letter from London to his brother, Francis Lightfoot Lee. Private commercial affairs. ff. (4).

2. [**Lee, Arthur.**] *Feb. 14, 1773.* Letter from London to his brother, [Richard Henry Lee.] American politics, etc. ff. (2). (Imperfect—last part wanting.)

3. **Lee, William.** *Feb. 23, 1773.* Letter from London to F. L. Lee. Private commercial affairs. ff. (2).

4. — *March 4, 1773.* Letter to the same, with a copy of the above (3). Same subject. ff. (4). (Imperfect—slightly torn.)

5. 6. **Massachusetts Bay.—House of Representatives.** *March 6, 1773.* Letter to Lord Dartmouth. The source of the governor's pay and other grievances of America. Signed, Thomas Cushing Speaker. ff. (4).

The second paragraph of this is printed in "A true state of the proceedings in the parliament of Great Britain," etc. [1774.]

7. — — — *March 6, 1773.* Petition to the king for restoring governor and judges to dependence upon the people. Signed, Thomas Cushing Speaker. ff. (2).

8. **Lee, William.** *March 20, 1773.* Note to his brothers, R. H. Lee and F. L. Lee, inclosing copy of his letter to R. C. Nicholas. Accounts of Lee estate. ff. (4).

9. — *July 31, 1773.* Letter to F. L. Lee. Private commercial affairs. ff. (2).

10. — *Sept. 18, 1773.* Letter to the same, with a copy of another, dated *Sept. 11, 1773.* Same subject. ff. (2).

11. — Copy of the above (10). (Imperfect—superscription torn.)

12, 13. — *Oct. 4, Dec. 2, 1773.* Two letters to the same. Same subject; election of mayor of London. ff. (4).

14. **Massachusetts Bay.—House of Representatives.** *Dec. 21, 1773.* Letter from committee to Benjamin Franklin, the colony's agent in London. Destruction of the tea in Boston harbor; temper of the people. Signed, Thomas Cushing, Samuel Adams, John Hancock, Wm. Phillips. ff. (2).

Printed, Massachusetts Historical Society, Collections, 4th ser. IV. 377.

15, 16. **Scollay, John.** *Dec. 23, 1773.* Letter from Boston to Arthur Lee. Same subject. pp. 12.

Printed, Massachusetts Historical Society, Collections, 4th ser. IV. 379.

17. **Lee, William.** *Jan. 4, 10, 29, 1774.* Three letters from London to F. L. Lee. Private commercial affairs. ff. (6). (The last is imperfect—a part torn off.)

18. — *March 19, 1774.* Letter to the same, with a copy of another, dated *March 16, 1773.* Same subject. ff. (2). (Imperfect—slightly torn.)

19. [**Lee, Arthur.**] *April 2, 1774.* Letter to the same. Political situation of America. Not signed. ff. (4).

Printed, Lee's Life of Arthur Lee, I. 37.

20. [**Lee, William.**] *April 2, 1774.* Letter to [F. L. Lee?] Non-exportation to Great Britain. Not signed or superscribed. f. (1).

21. — *April 21, June 5, 1774.* Two letters to F. L. Lee. Private commercial affairs, with a slight reference to politics. ff. (4).

22. — *July 14, 1774.* Letter to the same; with a copy of another of *June 30, 1774.* Private commercial affairs. ff. (2).

— *July 16, 1774.* Letter to the same. Non-exportation to Great Britain. ff. (2).

23. — Copy of the above of *July 16*, with autograph signature and postscript.

— *July 30, 1774.* Letter to the same, with another copy of the above of *July 16.* Private commercial affairs. ff. (2).

24. [Dickinson, John]. *Aug. 20, 1774*. Letter to [Arthur Lee]. General congress of the colonies. Not signed or superscribed. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 305.
25. Lee, William. *Sept. 5, 1774*. Letter to F. L. Lee. Private commercial affairs. ff. (2).
26. [Dickinson, John]. *Oct. 27, 1774*. Letter from Philadelphia to Arthur Lee. Political aspect of America. Not signed. ff. (2).
Lee, William. *Dec. 5, 1774*. Letter to F. L. Lee. Private commercial affairs; political situation of America. ff. (2).
27. Lee, Arthur. *Dec. 13, 1774*. Letter from London to his brother, [F. L. Lee?]. Non-exportation to Great Britain; plans of parliament against America. Not superscribed. ff. (2).
Printed, Lee's Life of Arthur Lee, I. 209.
- Lee, William. *Dec. 24, 1774*. Letter to F. L. Lee. Edward Brown's partnership in the firm. ff. (2).
28. — *Dec. 24, 1774*. Another letter to the same. Private commercial affairs. ff. (3).
29. — Copy of the above (28). pp. 5. (Imperfect — p. 5 torn.)
30. [Lee, Arthur]. *Dec. 26, 1774*. Letter from London to the same. General congress of the colonies; effect upon the ministry. Not signed. ff. (2).
Printed, Lee's Life of Arthur Lee, I. 213.
- Buchan, David Stewart Erskine, 11th earl of. *Jan. 5, 1775*. Letter to Arthur Lee. Fairfax lands in Virginia. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 346.
31. Lee, William. *Jan. 13, 14, 1775*. Letter to F. L. Lee. Private commercial affairs; petition of London merchants and traders to parliament for relief to American commerce. ff. (4). (Imperfect — torn.)
- Cushing, Thomas. *Feb. 1775*. Private letter from Boston to Arthur Lee. State of feeling in America. ff. (2).
Printed, Lee's Life of Arthur Lee, I. 275.
32. Lee, William. *Feb. 10, 1775*. Letter from London to F. L. Lee. Public and private commercial affairs. ff. (4).
- Warren, Joseph. *Feb. 20, 1775*. Letter from Boston to Arthur Lee. Prospect of war; spirit of New England. ff. (4).
Printed, Frothingham's Life of Joseph Warren, p. 418; Lee's Life of Arthur Lee, II. 264.
33. [Lee, William]. *Feb. 25, 1775*. Letter from London to [F. L. Lee]. Politics in England and America; sympathy with the ministry among American merchants in London. Not signed or addressed. ff. (2).
— *Feb. 25, 1775*. Another letter to F. L. Lee. Private commercial affairs. ff. (2).
34. — *March 1, 1775*. Letter to the same. Bill regulating fisheries; war preparations. ff. (2).
— *March 11, 1775*. Letter to the same. Private commercial affairs; commercial restrictions on America. ff. (2).
35. — *March 13, 1775*. Letter to the same. Private commercial affairs. f. (1).
- Franklin, Benjamin. *March 19, 1775*. Letter from London to Arthur Lee. Departure from London; Massachusetts papers, etc. ff. (2).
Printed, Sparks' Life of Franklin, p. 391.
36. Lee, William. *March 21, 1775*. Letter to F. L. Lee. Private commercial affairs. ff. (2).
- 37-44, 46-48. **Depositions**, *April 23-25, 1775*. Fight at Lexington and Concord. Indorsed, No. 2, 4-12, 14-18. All certified to by Nathaniel Gorham, Noty. pubk., at Charlestown, Mass., April 26, 1775. ff. (18).
Lexington. 2. Thomas Rice Willard, sworn before Wm. Reed, Jona. Hastings, Duncan Ingraham, Middlesex, April 23; — 4. Capt. John Parker, before Wm. Reed, Josiah Johnson, Wm. Stickney, April 25; — 5. John Robbins, before Wm. Reed, Josiah Johnson, April 24; — 6. Benjamin Tidd of Lexington, Joseph Abbot of Lincoln, before Wm. Reed, Josiah Johnson, Wm. Stickney, April 25; — 7. Nathl. Mulliken, Philip Russell, Moses Harrington, Junr., Thomas Harrington, Daniel Harrington, William Grimes, William Tidd, Isaac Hastings, Jonas Stone, Junr., James Wyman, Thaddeus Harrington, John Chandler, Joshua Reed Junr., Joseph Simonds, Phinehas Smith, John Chandler Junr., Reuben Lock, Joel Niles, Nathan Reed, Samuel Tidd, Benjamin Lock, Thomas Winship, Simeon Snow, John Smith, Moses Harrington y^e 3d, Joshua Reed, Ebenezer Parker, John Harrington, Enoch Wellington, John Hosmer, Isaac Green, Phinehas Stearns, Isaac Durant, Thomas Headley [Hadley?], Junr., all of Lexington, before the same, April 25; — 8. Nathaniel Parkhurst, Jonas Parker, John Monro Junr., John Winship, Solomon Peirce, John Muzzy, Abner Mead, John Bridge Junr., Ebenezer Bowman, William Monro 3d, Mikah Hagar, Samuel Sanderson, Saml. Hastings, James Brown, all of Lexington, before the same, April 25; — 9. Timothy Smith, of Lexington, before the same, April 25; — 10. Levi Harrington, Levi Mead, both of Lexington, before the same, April 25; — 11. William Draper, of Colrain, before the same, April 25; — 12. Thos. Fessenden, before the same, April 23.
- Concord*. 14. John Hoar, John Whithead, Abram Gearfield, Benja. Munroe, Isaac Parks, Wm. Hosmer, John Adams, Gregory Stone, of Lincoln, before Wm. Reed, John Cuming, Jona. Hastings, Duncan Ingraham, April 23; — 15. Nathan Barrett, Jonathan Farrar, Joseph Butler, Francis Wheeler, John Barrett, John Brown, Silas Walker, Ephraim Melven, Nathan Buttrick, Stephen Hosmer Junr., Samuel Barrett, Thomas Jones, Joseph Chandler, Peter Wheeler, Nathan Peirce, Edward Richardson, of Concord, before Jona. Hastings, John Cuming, Duncan Ingraham, April 23; — 16. Timothy Minot Junr., of Concord, before Wm. Reed, Jona. Hastings, John Cuming, Duncan Ingraham, April 23; — 17. Col. James Barrett, of Concord, before Wm. Reed, Jona. Hastings, Duncan Ingraham, April 23; — 18. Bradbery Robinson, Samuel Spring, Thaddeus Bancroft, of Concord, James Adams, of Lincoln, before Wm. Reed, Wm. Stickney, Jona. Hastings, April 23.

The entire series (20 in number) is printed in Force's American archives, 4th ser. II. 490, et seq.; Shattuck's History of Concord, pp. 342, et seq.; Journal of 2d continental congress, pp. 79, et seq.; and portions of it are given in Frothingham's Siege of Boston, pp. 367, et seq.; Remembrancer, 1775, I. 35, et seq.; London chronicle, June 1, 1775; also in various Boston newspapers of the time.

45. **Deposition.** Duplicate of "no. 14" above (p. 44). f. (1). (Imperfect — torn.)
49. **Lee, William.** *April 27, 1775.* Letter from London to Edward Browne, with postscript to F. L. Lee. Tobacco commerce. ff. (2).
60. **Warren, Joseph.** *April 27, 1775.* Letter from Cambridge to [Arthur Lee]. Josiah Quincy's death; necessity of conciliatory measures from England. ff. (2). (Imperfect — signature and address cut out.)
Printed, Frothingham's Life of Joseph Warren, p. 471; and incorrectly in Lee's Life of Arthur Lee, II. 267.
51. [**Dickinson, John.**] *April 29, 1775.* Letter to [Arthur Lee]. Fight at Lexington and Concord. Not superscribed. Signed, J. D. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 307.
52. **Warren, Joseph.** *May 16, 1775.* Letter from Cambridge to [Arthur Lee]. Situation of affairs in America. Not superscribed. ff. (2).
Printed, Frothingham's Life of Joseph Warren, p. 488; and incorrectly in Lee's Life of Arthur Lee, II. 268.
53. **Lee, Richard Henry.** *May 21, 1775.* Letter from Philadelphia to [F. L. Lee?]. Action of the provincial assemblies; conduct of British troops. Not superscribed. ff. (2).
54. **Lee, William.** *May 24, 1775.* Letter from London to F. L. Lee. Appointment as alderman of London; private commercial affairs; necessity of firmness in America. ff. (2).
55. **66. Continental Congress, Second.** *Philadelphia, May, 1775.* Form of address to the people of Great Britain. Injuries and attitude of America. Indorsed "1776." ff. (3).
Cf. Journals of congress, I. 134, et seq.; 142, et seq.
57. **58. Copies** of letters, 1775-1778, from Dr. Benjamin Rush, to John Sawbridge and to Mrs. Macaulay, John Sawbridge to Samuel Witham Stockton, William Baker to S. W. Stockton, Saml. Wharton to Benjamin Franklin, Granville Sharp to Benjamin Franklin. Recommendation of S. W. Stockton. 3d copy. Attested by S. W. Stockton. pp. 6.
- Dickinson, John.** *July 7, 1775.* Note from Philadelphia to Arthur Lee. Introduction of Dr. Hutchinson; fighting near Boston. Signature and address crossed out with ink. f. (1).
Printed, Lee's Life of Arthur Lee, II. 312.
59. **Continental Congress, Second.** *July 8, 1775.* Letter to Richard Penn, William Bolla, Arthur Lee, Edmund Burke and — Garth. Inclosure of a petition to the king, a second address to the people of Great Britain, and a letter of thanks to the lord mayor of London. Signed, John Hancock Presidt. — With note added, *Sept. 4, 1775*, by Arthur Lee and Richard Penn. Reception of petition. ff. (2).
Printed, Lee's Life of Arthur Lee, I. 47; and, without the postscript of the agents, in Journals of the 2d continental congress, p. 149.
60. **Dickinson, John.** *July 1775.* Letter from Nairhill to Arthur Lee. Petition to the king proposing plan of accommodation; engagements near Boston. Signature and address crossed out. f. (1). (Imperfect — torn.)
Printed, Lee's Life of Arthur Lee, II. 312.
61. **Dartmouth, William Legge, 2d earl of.** *Aug. 31, 1775.* Note to Richard Penn and Arthur Lee, appointing a meeting. p. (1).
- Lee, Arthur.** Note to Mr. Penn. Same subject p. (1).
- Penn, Richard, and Lee, Arthur.** *Sept. 2, 1775.* Draft of letter from London to the continental congress. Presentation of the petition mentioned in the preceding notes. f. (1). (Torn.)
62. **Lee, Arthur.** *Sept. 4, 1775.* Letter to [John Dickinson?] Violence of the ministry of Great Britain against the colonies. ff. (2).
63. **Virginia Delegates** to Second Continental Congress. *Oct. 5, 1775.* Draft of letter to committee of safety at Williamsburg. Patrols, military lookouts, etc. — With copy of another, dated *Oct. 23, 1775.* f. (1).
64. **Jackson, Bayard and Co.** *Jan. 18, 1776.* Letter from Philadelphia to Montandouin & Frère at Nantes. Order for merchandise. f. (1).
65. **Vergennes, Charles Gravier, Comte de.** *June 9, 1776.* Letter from Versailles, in French, to [Arthur Lee]. Ammunition for Virginia. With a translation. f. (1).
66. **67. Maryland — 11th Battalion of Militia.** *June 20, 1776.* Copy of a letter to the representatives of Prince George's county in the provincial convention. Support to the union of the colonies. Signed, Thomas Sim Lee, George Lee, Luke Marberry, John Addison, Wm. Barnes Jr., Thomas Trueman, Trueman Skinner, David Crawford, Fulder Bowie, Stephen West. ff. (3).
68. [**Lovell, James.**] 1776. Account of his imprisonment in Boston by the British; unsuccessful efforts for release. (The latter part probably in his autograph.) ff. (2). (Perhaps incomplete.)
69. — *June 25, 1776.* Letter from Halifax to Arthur Lee. Imprisonment at Halifax. ff. (2).
Printed, Lee's Life of Arthur Lee, I. 48.
70. **Certificate**, dated London, *Aug. 3, 1776*, from Geo. Ross, James Hodge, Richd. Rouse (British) as to their good treatment by Capt. Henry Johnson (American) while prisoners on his sloop. (f.) 1.
71. **72. Continental Congress, Second.** *Sept. 26, 1776.* Instructions to Benjamin Franklin, Silas Deane and Thomas Jefferson, commissioners. Proposed treaty with France. Signed, John Hancock Presidt. ff. (4).
Printed, Secret journals of congress, II. 27; Lee's Life of Arthur Lee, I. 280.
73. — *Sept. 30, 1776.* The original appointment of Benjamin Franklin, Silas Deane and Thomas Jefferson as commissioners to make a treaty with France. With seal. Signed, John Hancock Presidt. f. (1) folded.
Printed (with blanks for names), Secret journals of congress, II. 32.
74. — *Feb. 3, 1777.* Copy of the same with Arthur Lee's name substituted for Thomas Jefferson's. Attested on the outside by Benjamin Franklin, Silas Deane and Arthur Lee.
75. **76. Franklin, Benjamin, and Morris, Robert.** *Oct. 1, 1776.* Letter from Philadelphia to Silas Deane. Aid expected from France; battle of Long Island, etc. ff. (4).

77. **Agreement** in French, Oct. 15, 1776, between De Montieu, "Rodrique Hortalez & Cie" and Silas Deane. Secret aid to America. ff. (2).

Translation printed, Sparks' Diplomatic correspondence, I. 51.

78. **Continental Congress, Second.** Oct. 22, 1776. Extract from the minutes. Appointment of Arthur Lee as commissioner to France in place of Thomas Jefferson. Signed, Chas. Thomson Secy. f. (1).

79. 80. — Oct. 22, 1776. Instructions, similar to those above (71, 72). Indorsed, No. 2. With Arthur Lee's name in place of Thomas Jefferson's. ff. (4).

- 81-83. — Copy of the same. With extracts from the minutes, dated, Sept. 26, 28, 1776, and additional instructions, dated, Oct. 16, 22, 1776. Indorsed, Feb. 5, 1777, by Franklin, Deane and Lee.

Printed, Lee's Life of Arthur Lee, I. 280.

- 84-88. — Plan of treaty with France, sent with the above instructions. Signed, John Hancock Presidt. Indorsed, No. 3. ff. (10).

Printed, Secret journals of congress, II. 7, *et seq.*

89. **Letter**, dated Berlin, Nov. 25, 1776. Superscribed, "Edward Palmer Middle Temple London." Not signed. Political events of the times. ff. (2).

Many proper names are altered or erased.

90. **Memoir**, Dec. 1776, concerning the state of America. Drafted at Paris. ff. (2).

91. **Lee, Arthur.** Copies of political anecdotes of Sir Wm. Howe, Franklin, Gerard and Beaumarchais. ff. (3).

- 92-98. **Morris, Robert.** Dec. 20, 1776. Letter from Philadelphia to Silas Deane in Paris. Detail of American misfortunes. With postscript dated, Jan. 8, 1777. ff. (13).

Printed (except the opening sentence and the entire postscript), but with differences, in Sparks' Diplomatic correspondence, I. 225, *et seq.*, where it is dated Dec. 21, 1776, and addressed throughout as to the commissioners. This MS. bears pencil marks corresponding to the changes in the printed copy.

99. **Continental Congress, Second.** Dec. 23, 1776. Extract from the minutes. Resolution to the commissioners concerning the conduct of Portugal and action to be taken thereon. f. (1).

Printed, Secret journals of congress, II. 35.

100. **Franklin, Benjamin, Deane, Silas, and Lee, Arthur.** Dec. 28, 1776. Form of letter to Count d'Aranda, ambassador from Spain to France, asking permission to call upon him. f. (1).

101. **Lee, Arthur.** Dec. 23, 1776. Copy of letter to committee of secret correspondence, accepting his nomination as commissioner. — Copy of letter, Dec. 31, 1776, to Lord Shelburne. Departure for Paris. f. (1). (Imperfect — latter part wanting.)

Printed, Lee's Life of Arthur Lee, I. 60, 62.

VOL. III.

1. **Continental Congress, Second.** Jan. 2, 1777. Appointment of Benjamin Franklin, Silas Deane and Arthur Lee, as commissioners to make a treaty with France. With seal. Signed, John

Hancock; attest. Chas. Thomson Secy. f. (1), doubled. (Imperfect — cut.)

This differs from the commission on p. 74 of vol. II. by one additional clause: — "and also to enter into and agree upon a treaty with his Most Christian Majesty or such person or persons as shall be by him authorized for that purpose for assistance in carrying on the present war between Great Britain and these United States." See letter from Dr. Franklin on p. 27 of this volume.

2. [**Lee, Arthur**]. Jan. 4, 1777. Letter from Paris to his brother, Richard Henry Lee. Defence of the lakes; probable British force. ff. (2).

3. **Commissioners to France.** Jan. 5, 1777. Copy of memorial to France. Request for ships, *etc.* Indorsed by Lee, "Signed by the Commissioners & presented to Count Vergennes, thro M^r Gerard." Not signed. ff. (2).

Printed, Sparks' Diplomatic correspondence, II. 21; Lee's Life of Arthur Lee, I. 63.

4. **Gerard, Conrad Alexandre, Secretary to Vergennes.** Jan. 5, 1777. Note to the commissioners. Interview. ff. (2).

5. [**Commissioners to France**]. Jan. 14, 1777. Copy of letter to C. A. Gerard. Thanks for message from the king of France, Louis XVI. In Lee's handwriting, not signed. Indorsed, No. 10. f. (1).

The message was probably a verbal one delivered in the interview appointed by Gerard (see p. 4). See also Sparks' Diplomatic correspondence, II. 23, *note*. Printed, Sparks' Diplomatic correspondence, II. 23; Lee's Life of Arthur Lee, I. 66.

6. **Continental Congress, Second — Secret Committee.** Jan. 14, 1777. Copy of letter to the commissioners. Purchase of ammunition from France. Signed, "Rob^t Morris Chairman of the Secret Committee of Congress." Indorsed, 3d copy. ff. (2).

Printed, Lee's Life of Arthur Lee, I. 295.

7. **Gerard, C. A.** Jan. 30, 1777. Note to Arthur Lee. Interview. ff. (2). (Imperfect — torn.)

8. **Commissioners to France.** Feb. 1, 1777. Copy of memorial to Vergennes. France and England; Gen. Burgoyne. Indorsed by Lee, "Presented by M^r Lee alone at Versailles." Not signed. ff. (2).

Printed, Sparks' Diplomatic correspondence, II. 24; Lee's Life of Arthur Lee, I. 67.

9. [**Continental Congress, Second — Committee of Secret Correspondence**]. Feb. 2, 1777. Draft of letter from Baltimore to the commissioners. Blockade by the British; loan of ships of war from France; Gen. Washington; Sir-William Howe; Gen. Heath. Indorsed, "Copy of Letter to Commissioners." In R. H. Lee's handwriting, but not signed. f. (1).

Printed, in Sparks' Diplomatic correspondence, I. 257, with differences and signatures: B. Harrison, R. H. Lee, W. Hooper; in Lee's Life of Arthur Lee, I. 290, with verbal changes and signatures: Benj. Harrison, Richard Henry Lee, Jno. Witherspoon.

- 10, 11. [**Commissioners to France**]. Feb. 6, 1777. Copy of letter to "The Secret Committee of Congress." Hodge; Farmers-general; American packets; Burgoyne; envoys to Spain and Holland; Nicholas Davis. Not signed. Copy examined by W. T. Franklin. ff. (4).

Printed, Lee's Life of Arthur Lee, I. 310; Sparks' Diplomatic correspondence, I. 260, where it is addressed, "To the committee of secret correspondence." For the difference between the committees see Sparks' Diplomatic correspondence, I. 5, *note*.

12. **Gruel, J.** *Feb. 8, 1777.* Etat de diferentes sommes Payés à Nantes Par ordre et Pour compte de Monsieur le Docteur franklin. ff. (2).
 13. [**Continental Congress, Second—Secret Committee.** *Feb. 17, 1777.* Draft of letter from Baltimore to the commissioners. Orders for clothing, etc. Signed, Richard Henry Lee; and in his handwriting. Indorsed, "Copy of letter from Secret Committee." f. (1).
 14. **Cleveland, Stephen, Capt.** *Feb. 19, 1777.* Letter to Arthur Lee. John Philip Mirckle. ff. (2).
 15. [**Lee, Arthur.** *Feb. 20, 1777.* Letter from "Bordeau," addressed, "Dear Brother." Thomas Morris; J. P. Mirckle. Not signed. ff. (2).
 16. **Gardoqui, Joseph & Sons, merchants at Bilbao.** *March 3, 1777.* Letter from Bilbao to Arthur Lee. Commerce between the firm and America; news of Trenton battle. ff. (2).
 17. **Lee, Arthur.** *March 5, 1777.* Copy of memorial from Burgos to Marquis de Grimaldi. Reasons for desiring reception at Madrid. Signed, "Arthur Lee Commissioner plenipotentiary from the Congress of the United States of America." Indorsed, N^o. 13. ff. (2).
- The title here assumed by Lee was not strictly descriptive of his position, and was probably appended only for form, as in his other communications to the court of Spain; see Sparks' Diplomatic correspondence, II. 47, *note*. Printed, Sparks' Diplomatic correspondence, II. 38; Lee's Life of Arthur Lee, I. 79.
18. **Lee, Arthur.** *March 5, 1777.* Memoria sobre [*sic*] la contienda en la America. Dated at Burgos. Signed as the last on p. 17. Indorsed, N^o. 14. Interlined with English translation. ff. (2).
- English translation printed, in Lee's Life of Arthur Lee, I. 81; and with differences in Sparks' Diplomatic correspondence, II. 41, where it is stated that the memorial was not presented to the court of Spain, but put into the hands of Marquis de Grimaldi at Burgos, who returned a verbal answer without consulting the court.
- 19, 20. [**Sarsfield, — Comte de**? 1777? Mémoire. Arrangement of troops in America. Not signed. Indorsed, "Count [Sarsfield's?] plan for troops." pp. 8.
 - 21–24. [**Lee, Arthur.** *March, 1777.* Plan of a treaty with Spain. Not signed. ff. (7).
See Lee's Life of Arthur Lee, I. 84.
 25. [—]. *March 6, 1777.* Letter from Burgos. Character of commercial agents of Congress in Europe. Addressed, "Dear Sir"; closing, "Adieu," but not signed. ff. (2).
 26. [—]. *March 19, 1777.* Letter from Vitoria to R. H. Lee. Loans to America; additional troops. ff. (2).
- Downer, Eliphalet.** *March 20, 1777.* Receipt, dated Pool, to William Lee for five guineas. Indorsed, "Ent. P. C. fol. 65." f. (1).
27. **Franklin, Benjamin.** *March 21, 1777.* Letter from Passy to Arthur Lee. News of Trenton battle; Lord Cornwallis; Washington; Howe; fresh commission (see p. 1 of this volume); Lee's mission to Spain. ff. (2).
- Printed, Sparks' Diplomatic correspondence, II. 54; Lee's Life of Arthur Lee, I. 75.
28. **Gardoqui, Joseph & Sons.** *March 22, 1777.* Letter from Bilbao to Arthur Lee. News from America; preparation of ships. ff. (2).
 29. **Gardoqui, James.** *March 23, 1777.* Letter from Vitoria to Arthur Lee. Washington's advantage over British. ff. (2).
 30. **Farmers-General of France.** *March 24, 1777.* Copy of contract with Franklin and Deane for tobacco. In French. Signed, B. Franklin, S. Deane, Paulze. ff. (2). (Imperfect—edges worn.)
Translation printed, Sparks' Diplomatic correspondence, I. 282.
 31. [**Commissioners to France.** *March 28, 1777.* Copy of propositions to Vergennes. Supply of cannon, etc. to America. f. (1).
 32. **Cleveland, Stephen, Capt.** *March 28, 1777.* Letter from Bordeaux to Arthur Lee. J. P. Mirckle. ff. (2).
 33. [**Gardoqui, Joseph & Sons.** *April 9, 1777.* Letter from Bilbao to Benjamin Franklin. Supplies for America. Not signed. ff. (2).
 34. **Suffolk, Henry Howard, 12th Earl of.** *April 10, 1777.* Copie d'une lettre au comte de Welderen Ministre d'hollande à Londres. Governor of St. Eustatius. Indorsed, "Taken by Conyngham." ff. (2).
 35. [**Lee, Arthur**? *April 12, 1777.* Copy of letter from Paris to Dr. Richard Price. Conduct of British soldiery in America. Not signed. ff. (3).
 36. [**Commissioners to France.** *April 19, 1777.* Draft of letter to Baron Schulenburg. Friendly relations between America and Prussia. Signatures in pencil. Copy on next page. ff. (2).
Printed, Sparks' Diplomatic correspondence, II. 58; Lee's Life of Arthur Lee, II. 5.
 37. [—]. Copy of the same. Signed. Indorsed, No 1. ff. (2).
 38. **Gardoqui, Joseph & Sons.** *April 19, 1777.* Letter from Bilbao to Arthur Lee. Supplies for America. With memoranda. ff. (2).
 39. **Gardoqui, James.** *April 24, 1777.* Letter from Madrid to Arthur Lee. Loan of 81,000 livres. ff. (2).
 40. [**Commissioners to France.** *April 28, 1777.* Copy of letter from Paris to secret committee of congress. Supplies sent by France; Lee's mission to Prussia. Not signed. Note added by W. T. Franklin.
Printed, Lee's Life of Arthur Lee, I. 314.
- *May 1, 1777.* Copy of letter to Jonathan Williams. Directions about packets. Indorsed, N^o 1. f. (1).
Printed, Sparks' Diplomatic correspondence, I. 285.
41. [**Gardoqui, Joseph & Sons.** *May 5, 1777.* Letter from Madrid to [Arthur Lee?]. Supplies for America. Superscribed, "M^r John Thompson." Not signed. Indorsed in pencil, Gardoqui. ff. (2).
 42. [**Commissioners to France.** *May 7, 1777.* Draft of memorial to Vergennes. Violations of French neutrality by British vessels; case of the Culloden. Indorsed, "drawn up by A. Lee." ff. (2).

43. [—]. Copy of the same. f. (1).

Grand, Ferdinand, banker at Paris. May 10, 1777. Acknowledgment of receipt of a bill for 106,500 livres, indorsed by Gardoqui, in favor of Arthur Lee. f. (1).

See Gardoqui's letter in Sparks' Diplomatic correspondence, II. 59.

44. [Commissioners to France]. May 11, 1777. Letter to Count de Bernstorff, minister to Copenhagen, sending him a letter captured from a British vessel by an American privateer. ff. (2).

Schulenburg-Kehnert, Friedrich Wilhelm, Baron de. May 20, 1777. Letter from Berlin to Arthur Lee. Lee's journey to Berlin. In French, with translation by Lee. Indorsed, No 2. ff. (2).

Translation printed, Sparks' Diplomatic correspondence, II. 63; Lee's Life of Arthur Lee, II. 6.

45. **Gardoqui, James.** May 20, 1777. Letter from Madrid to Arthur Lee. Supplies to America from the firm in Bilboa; receipt of tobacco in return. Not signed. ff. (2).

Schulenburg-Kehnert, F. W., Baron de. June 9, 1777. Letter from Berlin to Arthur Lee. Lee's journey to Berlin. In French, with translation by Lee. ff. (2).

Translation printed, Sparks' Diplomatic correspondence, II. 68; Lee's Life of Arthur Lee, I. 90.

46. **Grand, Ferdinand.** June 10, 1777. Account with the commissioners. f. (1).

47. **Sollier, J., banker at Nantes.** June 13, 1777. Account with the commissioners. ff. (2).

Maltrebiou (?), —. June 17, 1777. Letter from Calais to M. Deloder at Paris. His capture and treatment by the British. In French. ff. (2).

48. **Rosa, John.** June 17, 1777. Letter from Nantes to Silas Deane. Gruel's account against congress. ff. (2).

Schulenburg-Kehnert, F. W., Baron de. June 18, 1777. Letter from Berlin to Arthur Lee. Commerce between Prussia and America. In French, with translation by Lee. Indorsed, No 3. ff. (2).

Translation printed, Sparks' Diplomatic correspondence, II. 75; Lee's Life of Arthur Lee, II. 8.

49. — June 26, 1777. Letter to the same. American privateers in Prussian ports. In French, with translation by Lee. ff. (2).

Translation printed, in Papers in relation to the case of Silas Deane, p. 187, published in 1855 by the Seventy-six society, Philadelphia; Sparks' Diplomatic correspondence, II. 78; Lee's Life of Arthur Lee, I. 97.

[Lee, Arthur]. June 28, 1777. Letter from Berlin to his colleagues at Paris. Cannon from Prussia; robbery of his papers. Indorsed, No 4. ff. (2).

Printed, Sparks' Diplomatic correspondence, II. 79; Lee's Life of Arthur Lee, II. 9.

50. **Williams, Jonathan, commercial agent at Nantes.** June 28, 1777. Copy of letter from Nantes to the firm of De Begray, Beaugard fils & cie. at St. Malo. Disposal of prizes. With copy of circular letter to prize-masters. ff. (2).

Frederick II, of Prussia. July 2, 1777. Letter from Potsdam to Arthur Lee. Robbery of Lee's papers. In French, with translation by Lee. ff. (2).

Printed, Lee's Life of Arthur Lee, I. 96; and translation printed, Sparks' Diplomatic correspondence, II. 86.

51. **Deane, Silas.** July 4, 1777. Copy of letter from Paris to Jonathan Williams. Disposal of prizes at Nantes. Indorsed, "No 2 Copy of Extract." f. (1).

After the signature is this note added in the same hand: "The forgoing being written in the plural Number is supposed to be from the Commissioners altho' accidentally signed only by Mr. Deane, The Letter to Cap^t Weeks (see next paper) being to the same effect & being signed by Doct^r Franklin & M^r Deane prove this, and the Letter from Doct^r Franklin of Dec^r 22^d, 1777 (see reverse of next paper) ratifying all M^r Deane's orders renders it perfectly authentic." Printed, except the note, in Papers in relation to the case of Silas Deane, p. 201, published by the Seventy-six society, Philadelphia.

Franklin, Benjamin, and Deane, Silas. July 4, 1777. Copy of letter from Paris to Capt. Lambert Weeks. Prizes; Mr. Williams. Indorsed, "No. 3 Copy." — **Franklin, Benjamin.** Dec. 22, 1777. Copy of letter from Passy to Jonathan Williams. Same subjects; ratification of Mr. Deane's orders. On reverse of preceding paper. Indorsed, "No 4 Copy of Extract." f. (1).

Printed, in Papers in relation to the case of Silas Deane, p. 200, published by the Seventy-six society, Philadelphia. The note by Franklin, of Dec. 22, 1777, on the reverse, is printed in the same, p. 193.

52. **Lee, Arthur.** July 6, 1777. Letter from Berlin to his colleagues in Paris. Robbery of his papers; probable consequences. ff. (2).

Printed, Sparks' Diplomatic correspondence, II. 86; Lee's Life of Arthur Lee, II. 10.

Williams, Jonathan. July 8, 1777. Letter from Nantes to the commissioners. Disposal of prizes; fitting out of privateers. ff. (4).

53. — July 9, 10, 1777. Copy of two letters from Nantes to Thomas Morris. Disposal of prizes. ff. (2).

54. — July 10, 1777. Letter from Nantes to the commissioners. Same subject; purchase of clothing; discount credit. ff. (4).

55. — July 12, 1777. Letter to the same. Thomas Morris; prizes; purchase of clothing. ff. (2).

56. **Vergennes, C. G., Comte de.** July 16, 1777. Copy of letter from Versailles to Franklin and Deane. American privateers in French ports. In French. ff. (2).

Translation printed, Sparks' Diplomatic correspondence, I. 311.

57. — Copy of the same. — [Aug. 21, 1777.] Copy of letter to Grand (see original on p. 66). Privateers; prizes; Chaumont; Hodge. — March 4, 1778. Extract of letter from Capt. Cunningham to Arthur Lee. Disposal of prizes. — Note by Arthur Lee. Deane. ff. (2).

Translation of Vergennes' letter to Grand, Sparks' Diplomatic correspondence, II. 95.

58. **Schweighauser, J. D.** July 16, 1777 (?) Letter to the commissioners. Disposal of American goods and prizes. "July 16" added in Lee's (?) handwriting; the year is not given. Indorsed in later hand in pencil, "1777 (?) ff. (2).

59. **Franklin, Benjamin, and Deane, Silas.** *July 17, 1777.* Copy of letter to Vergennes. Answer to his complaint of violation of neutrality by American privateers (see pp. 56, 57). ff. (2).
Printed, Sparks' Diplomatic correspondence, I. 314.
60. **Weedon, George, Gen.** *July 18, 1777.* Letter from "Clove(?) Camp in New Jersies" to [R. H. Lee?]. Capture of Gen. Prescott. f. (1).
61. **Pincus d'Eisenstadt, Baruch.** *July 20, 1777.* Letter from Vienna to Arthur Lee. Price of wool and cloth. ff. (2).
- Sollier, J.** *Aug. 1, 1777.* Account with the commissioners. In French. ff. (2).
62. **Penet, P. & cie.** *Aug. 2, 1777.* Letter from Nantes to Arthur Lee. Financial transactions of the commissioners; complaints. ff. (2).
- Gerard, C. A.** *Aug. 4, 1777.* Reply to Arthur Lee. ff. (2).
63. **Lee, William.** *Aug. 9, 1777.* Letter from Nantes to [F. L. Lee?]. Difficulties as commercial agent at Nantes. Indorsed, "F L L." ff. (2).
- Greive, —.** *Aug. 11, 1777.* Note to Arthur Lee. Appointment for breakfast. News from America. ff. (2).
64. **Lee, William.** *Aug. 12, 1777.* Copy of letter from Nantes to R. H. Lee. Difficulties as commercial agent at Nantes. ff. (2).
65. **Commissioners to France.** *Aug. 12, 1777.* Copy of letter to Vergennes. Hodge. Indorsed, "Sent to Count Vergennes by Mr Franklin junr." ff. (2).
Printed, Sparks' Diplomatic correspondence, I. 317.
- Franklin, Benjamin, and Deane, Silas.** *May 9-Aug. 15, 1777.* Copy of contracts with the firm of Holker fils, Sabatier fils & Desprez for furnishing cloth. In French. Copy certified by H. Ford, Sec'y. ff. (2).
Translation of that of Aug. 15 printed, in Sparks' Diplomatic correspondence, I. 318.
66. **Vergennes, C. G., Comte de.** *Aug. 21, 1777.* Letter to Grand. Privateers; prizes; Chaumont; Hodge. In French. ff. (2). (Imperfect — hole worn.)
See copy on p. 57. Translation printed, Sparks' Diplomatic correspondence, II. 95.
- [**Bridgen, Edward.** *Aug. 29, 1777.* Letter from London to [Arthur Lee]. American politics; character of American agents. Signed, E. B. Superscribed, "Monsieur Johnstone." ff. (2).
Printed, Lee's Life of Arthur Lee, II. 86.
67. **Jennings, Edmund.** *Sept. 1, 1777.* Letter to [Arthur Lee]. American affairs. Signed, "Robert Williams." f. (1).
Printed, Lee's Life of Arthur Lee, II. 99.
- [—]. Letter to [Arthur Lee]. Trouble between Franklin and Lee; Carmichael. Not dated. Signed, "G. Harrison." Superscribed, "Monsieur Dupré." ff. (2).
Printed, Lee's Life of Arthur Lee, II. 100.
68. **Wanson, —, maitre tailleur.** *Sept. 2, 1777.* Note in French. Lee's letters; Carmichael. f. (1).
- [**Gardoqui, James.** *Sept. 4, 1777.* Letter from Madrid to Arthur Lee. Proffers of personal friendship; disposition of Spain toward America. ff. (2).
69. **[Commissioners to France].** *Sept. 8, 1777.* Copy of letter to "The Secret Committee." Disposition of European powers toward America; financial situation of the commissioners; English trade. Not signed. Attested by W. T. Franklin. ff. (4).
Printed, Lee's Life of Arthur Lee, I. 315; Sparks' Diplomatic correspondence, I. 319, where it is addressed, "To the committee of foreign affairs." (formerly the committee of secret correspondence, see Journals of congress, III. 142).
70. **[Gardoqui, Joseph & Sons].** *Sept. 13, 1777.* Letter from Bilbao to Benjamin Franklin. Proffers of friendship; consignment of tobacco; Logoanere & Co.; Cuningham. ff. (2). (Imperfect — torn.)
71. **Dumas, Karl Wilhelm Friedrich.** *Sept. 23, 1777.* Letter to Arthur Lee. Lee's journey to Berlin; John Adams; Samuel Adams; Cushing; Newman; Franklin; Deane; Carmichael. Inclosing extracts from two other letters of his of same date. ff. (3).
72. **[Jennings, Edmund].** *Sept. 24 (?) 1777.* Letter to [Arthur Lee]. Trouble between Franklin and Lee. Signed, "George Harrison." Superscribed, "Monsieur Letsom" (?) ff. (2).
Printed, Lee's Life of Arthur Lee, II. 90, where the date is given *Sept. 27th*. The date is apparently 23 changed to 24.
- Carmichael, William.** *Sept. 26, 1777.* Note to Arthur Lee. Request for an interview. Answer, on same page, from Lee, appointing one. f. (1).
- 73, 74. **Thompson, Thomas, Capt.** *Sept. 28, 1777.* Copy of letter to the commissioners. Account of the Raleigh's voyage and encounter with a British fleet off the Bermudas. ff. (4).
75. —. *Oct. 5, 1777.* Copy of the journal of the Raleigh. Indorsed, "Sent to Congress." ff. (2).
76. **Deane, Simeon.** *Oct. 7, 1777.* Letter from Passy to "Capt. Joseph Hynson or Capt. John Folger." Packets to America. With two other communications to Folger, *Oct. 7, 19, 1777*, on the reverse, the second signed by Franklin and Deane. f. (1).
- 77, 78. **Commissioners to France.** *Oct. 7, 1777.* Copy of letter from Passy to "The Secret Committee." Money loans from Europe; failure of remittances; commercial agents; Ross; Hodge; Ceronio; Gardoqui; William Lee; Izard. Attested, W. T. Franklin. ff. (4).
Printed, Lee's Life of Arthur Lee, I. 319; Sparks' Diplomatic correspondence, I. 322, where it is addressed "To the committee of foreign affairs." This is probably correct, as the "Secret committee" was dissolved July 5, 1777, and the "Committee of secret correspondence," April 17, 1777.
79. **Rosignan, Sigard, Marquis de, Sardinian envoy to Berlin.** *Oct. 7, 1777.* Letter from Berlin to Arthur Lee. Ticonderoga; Burgoyne; electrophons; Sayre. In French. ff. (2).
Translation printed, Lee's Life of Arthur Lee, II. 263.
- [**Gardoqui, James.** *Oct. 16, 1777.* Letter from Madrid to Arthur Lee. Supplies to America. Signed, J. G. ff. (2).
80. [—]. *Oct. 27, 1777.* Letter to the same. Conduct of American privateers toward French and Spanish property; American army

- at Saratoga; supplies for America. Not signed. ff. (2).
- Sayre, Stephen.** Oct. 27, 1777. Letter from Berlin to Franklin. Appeal for support. ff. (2).
81. **[Jennings, Edmund].** Oct. 1777. Letter to [Arthur Lee]. Carmichael. Signed, "John Harris." Superscribed, "John Waters." ff. (2).
Printed, *Lee's Life of Arthur Lee*, II. 97.
- [—]. Nov. 4, 1777. Letter to the same. Same subject. Signed, "John Bourgenville." f. (1).
Printed, *Lee's Life of Arthur Lee*, II. 91.
82. **Lee, William.** Nov. 11, 1777. Letter from Paris to his brother, [F. L. Lee?]. Commercial agency at Nantes; mission to Prussia; Carmichael; Capts. Babson and Kendrick; Hodge; Cunningham; complaints against commissioners at Paris. pp. 8.
83. — Nov. 24, 1777. Letter from Paris to R. H. Lee. Commercial agency at Nantes; acceptance of appointment to Prussia; complaints against Williams, Deane; Thomas Morris; Lloyd; Montandouin; Limozin; use of public money. ff. (4).
84. **[Gardoqui, James].** Nov. 24, 1777. Letter from Madrid to Arthur Lee. Orders of congress; Ross's cargo of flour at Corunna (see p. 86); Burgoyne. ff. (2).
- [Jennings, Edmund].** Nov. 25, 1777. Letter to [Arthur Lee]. Disposition of England; hiring Swiss troops. Signed, "John Townsend." ff. (2).
Printed, *Lee's Life of Arthur Lee*, II. 92.
85. **[Commissioners to France].** Nov. 25, 1777. Letter from Paris to Capt. Thomson. Instructions about prizes. Not signed. ff. (2).
86. **Ross, John.** Nov. 25, 1777. Letter from Nantes to Arthur Lee. Gardoqui's letter; cargo of flour at Corunna (see p. 84). ff. (2).
87. **[Gardoqui, Joseph & Sons].** Nov. 26, 1777. Letter from Bilbao to Arthur Lee. Remittances to America. ff. (2).
88. **Grand, Ferdinand.** Nov. 27, 1777. Memorandum of money remittances. f. (1).
89. **Digges, Thomas, of Maryland.** Dec. 1, 1777. Note to W. Thornton. List of American prisoners in Fortton prison near Portsmouth, Eng.; their treatment. ff. (2).
90. **Ross, John.** Dec. 2, 1777. Note from Nantes to Arthur Lee. Acknowledgment of letter. ff. (2).
- Rosignan, Sigard, Marquis de.** Dec. 2, 1777. Letter from Berlin to [Arthur Lee]. Fordyce Bang; Sayre; Elliot; electrophons. In French. Indorsed, N° 2. ff. (2).
Translation printed, *Lee's Life of Arthur Lee*, II. 365.
91. **Ross, John.** Dec. 2, 1777. Letter from Nantes to the commissioners. Insurance of public property. ff. (2).
- [Jennings, Edmund].** Dec. 2, 1777. Letter to [Arthur Lee]. News from America; Washington; Howe; Donop; Burgoyne. Signed, "John Townsend." Superscribed, "Monsieur Waters." ff. (2).
Printed, *Lee's Life of Arthur Lee*, II. 95.
92. **[Gardoqui, Joseph & Sons].** Dec. 3, 1777. Letter from Bilbao to Arthur Lee. Supplies for America. Signed, J. G. ff. (2).
93. **Continental Congress, Second.** Dec. 3, 1777. Resolutions on the issue of paper money; directions to the commissioners; borrowing money from France. Signed, Henry Laurens, President; attest. Chas. Thomson Secy. Indorsed, Duplicate. f. (1).
The first two paragraphs were public, and printed in *Journals of congress*, III. 552; the rest of the paper is printed in *Secret journals of congress*, II. 55.
94. **[Jennings, Edmund].** Dec. 5, 1777. Letter to [Arthur Lee]. Howe; Burgoyne; Washington. Signed, "C. (?) Townsend." Superscribed, "Monsieur Dupre." ff. (2).
Printed, *Lee's Life of Arthur Lee*, II. 94, where the signature is given as J. Townsend.
- Lee, Arthur.** Dec. 10, 1777. Copy of letter from Paris to the earl of Shelburne. Treatment of prisoners; cruelty of Gen. Clinton. Indorsed, Lett. Book. I. p. 144. Copy compared by John Adams. f. (1).
Printed, *Lee's Life of Arthur Lee*, I. 104; Sparks' *Diplomatic correspondence*, II. 119, where it is dated Dec. 14.
95. **[Gardoqui, James].** Dec. 10, 1777. Letter from Madrid to Arthur Lee. Supplies for America; Capt. Babson; Capt. Hibbert. Not signed. ff. (2).
- Franklin, Benjamin.** Dec. 11, 1777. Copy of letter from Paris to Sir Grey Cooper. Condition of American prisoners in England; Major Thornton. With copy of instructions from the commissioners to Major Thornton. Attested, W. T. Franklin. ff. (2).
96. **Mullett, Thomas.** Dec. 14, 1777. Letter from Bristol to —, introducing William Stevenson. ff. (2).
- Ross, John.** Dec. 16, 1777. Letter from Nantes to Arthur Lee. American vessels; British cruisers; Hodge. ff. (2).
97. **[Gardoqui, Joseph & Sons].** Dec. 17, 1777. Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2).
98. **Morris, Robert.** Dec. 17, 1777. Copy of letter from Manheim to William Smith of the commercial committee at York, Eng. Conduct of Thomas Morris. ff. (2).
- [Gardoqui, James].** Dec. 18, 1777. Letter from Madrid to Arthur Lee. Washington; Howe; supplies for America. Not signed. ff. (2).
- 99, 100. **[Commissioners to France].** Dec. 18, 1777. Copy of letter from Paris to the committee for foreign affairs (formerly committee of secret correspondence). Burgoyne's surrender; treaty of amity and commerce with France; remittances of money; favors from France; Lord Stormont; treatment of prisoners. Directed to Robert Morris. ff. (4).
Printed, Sparks' *Diplomatic correspondence*, I. 355.
101. **Schulenburg-Kehnert, F. W., Baron de.** Dec. 18, 1777. Letter from Berlin to Arthur Lee. Burgoyne's surrender. In French, with translation by Lee. ff. (2).
Printed, Sparks' *Diplomatic correspondence*, II. 120; *Lee's Life of Arthur Lee*, I. 98.

- [Jennings, Edmund]. *Dec. 22, 1777.* Letter to [Arthur Lee]. London news; Stevenson. Signed, "C. Townsend." f. (1).
102. **Grand, Ferdinand.** *Dec. 23, 1777.* Receipt to Arthur Lee. f. (1).
- Ross, John.** *Dec. 24, 1777.* Letter from Nantes to the commissioners. Shipments to America. ff. (2).
103. **Boux, —, Capt.** *Dec. 24, 1777.* Letter from Paris to [the commissioners?]. Request for commission in American navy. In French. ff. (2).
- Sayre, Stephen.** *Dec. 25, 1777.* Letter from Copenhagen to the commissioners. His plans about going to America; disposition of Denmark toward America. ff. (2).
- 104-107. **Morris, Robert.** *Dec. 26, 1777.* Copy of letter from Mannheim to Henry Laurens. Conduct of Thomas Morris. ff. (4).
108. **Ross, John.** *Dec. 27, 1777.* Letter from Nantes to Arthur Lee. Fitting out cruisers. ff. (2).
109. **[Gardoqui, Joseph & Sons].** *Dec. 27, 1777.* Letter from Bilbao to Arthur Lee. Supplies for America; Capt. Hibbert; Burgoyne; Howe. Signed, J. G. & Co. ff. (2).
110. **Waller, John.** *Dec. 28, 1777 (?)*. Letter from Plymouth, Eng., to David Hartley. Condition of American prisoners; Condry, the agent; Burgoyne. ff. (3). (Date partly illegible from stain.)
111. **Carmichael, William.** *Dec. 30, 1777.* Letter from Nantes to the commissioners. Ships to America; Williams. ff. (2).
- Morris, Thomas.** *Dec. 30 or 31, 1777.* Copy of letter from Nantes to Jonathan Williams. Appointment of Williams as assistant in the commercial agency at Nantes. Indorsed, N^o 5. f. (1). (Imperfect — part of date torn off.)
112. **Moylan, James.** *Dec. 31, 1777.* Letter from L'Orient to Arthur Lee. British proposition to raise Catholic regiments in Ireland; Macintosh, a Scotch spy. With copy of letter from the commissioners to him promising him the control of the public business at L'Orient. Indorsed, N^o 5. ff. (3).
113. **[Berkenhout, —, Dr.]** *1777.* Letter to Arthur Lee. Capture of the Fox; Washington; Philadelphia; paper money. Not signed, dated, or addressed. ff. (2).
82. **Lenoue, —.** *Nov. 11, 1777.* Letter from Paris, in French, to Arthur Lee. Colombé and Lauty. Indorsed, "Letters relative to the robbery of our Despatches by Folger." ff. (2).
- This paper was inadvertently omitted from its proper chronological place.
1. **Stevenson, William.** *Jan. 1, 1778.* Claim for £500 on the French governor-general at Guadalupe. With note in pencil by Arthur Lee. ff. (2).
2. **Carmichael, William.** [*About Jan. 3, 1778.*] Note to Arthur Lee. Departure for America. Dated, "Saturday 6 o'clock." ff. (2).
- For the circumstances of this and the three following papers, see Lee's Life of Arthur Lee, I. 373, 374; and Papers in relation to the case of Silas Deane, p. 54, published in 1855 by the Seventy-six society, Philadelphia.
3. **Stevenson, William.** [*Jan. 4, 1778.*] Letter to the commissioners. Despatches for America. ff. (2).
4. **Franklin, Benjamin, and Deane, Silas.** *Jan. 4, 1778.* Answer to Stevenson's note (p. 3) Despatches for America. f. (1).
5. **Stevenson, William.** *Jan. 4, 1778.* Reply to the letter of Franklin and Deane. Explanation of his position. ff. (2).
- Lee, William.** *Jan. 4, 1778.* Letter to F. L. Lee. Stevenson; Carmichael; Hodge; Deane; Burgoyne's surrender; British plans for new campaign; prospect of European war. ff. (2).
6. **Letter,** dated "Alnewick," to [Arthur Lee]. *Jan. 4, 1778.* Burgoyne's expedition; Harcourt; sympathy with America. P. S. dated, *Jan. 13.* Not signed, perhaps imperfect; addressed, "Dear Friend"; indorsed, N^o 4. f. (1).
- Ross, John.** *Jan. 5, 1778.* Letter from Nantes to Arthur Lee. Stevenson. ff. (2).
7. **[Lovell, James].** *Jan. 5, 1778.* Portion of letter to R. H. Lee. Ticonderoga; attorney-general Sergeant of Pennsylvania; Patterson of New Jersey. Date and name indorsed on back. f. (1).
8. — *Jan. 5, 1778.* Letter from York [Pennsylvania] to [R. H. Lee?]. Loss of public papers, sent by the commissioners through Capt. Folger; Gen. Howe; Burgoyne. With an explanatory indorsement and names filled out in another hand. ff. (2).
- Lee, Arthur.** *Jan. 5, 1778.* Draft of letter from Paris to [the committee of foreign affairs]. Result of his missions to Spain and Prussia; effect of Burgoyne's surrender; friendly attitude of Prussia. With a copy of a note in French from Schulenburg, dated, *Dec. 23, 1777.* Indorsed, "Committee" and "No 7." ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 16; and with verbal differences in Sparks' Diplomatic correspondence, II. 123, on p. 122 of which is a translation of Schulenburg's note.
9. — *Jan. 5, 1778.* Letter from Paris to [R. H. Lee]. Treaty of commerce with Portugal; British defence of Canada. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 126.
- 10, 11. **[Thornton, John (?), Major.]** *Between Jan. 5 and Jan. 8, 1778.* Memorandum to the commissioners. Prisoners confined by the British at Forton prison near Portsmouth, Eng. With list of those in prison *Dec. 29, 1777.* ff. (6). (Imperfect — each page worn.)
- Probably not the whole, as it is not signed or dated. Name indorsed on outside.
12. — Copy of one sentence in the same. Dr. Bancroft "stock-jobbing" in London for commissioners. Copy attested by H. Ford, sec'y. f. (1).
- Lee, Arthur.** *Jan. 10, 1778.* Extract from a letter to Franklin and Deane. Williams's accounts. Indorsed in Lee's handwriting, "taken from 49th page Letterbook, Vol 2^d"; also in

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- John Adams's, "Copy from a Letter Book of the Hon. A. Lee compared by John Adams." f. (1).
13. [Gardoqui, Joseph & Sons]. *Jan.* 10, 1778. Letter from Bilbao to Arthur Lee. Capt. Cunningham's prize; supplies for America. Signed, J. G. & Co. ff. (2).
- 14, 15. Copy of examination, *Jan.* 12, 1778, of Capt. Folger. Opening of despatches to congress, (see p. 8). Signed, James Lovell. ff. (4).
16. Dumas, Karl Wilhelm Friedrich. *Jan.* 13, 1778. Letter from the Hague, in French, to Arthur Lee. News from America; effect of good news on money-lenders in Holland; Van Berkel; commissions in American army; publication of a new encyclopædia. Signed, D. ff. (2).
- [Gardoqui, Joseph & Sons]. *Jan.* 14, 1778. Letter from Bilbao to Arthur Lee. Shipment of supplies for America. Signed, J. G. & Co. ff. (2).
17. [Commissioners to France]. *Jan.* 16, 1778. Copy of orders to Capt. John Paul Jones of the Ranger. Disposal of prizes; conduct toward neutral powers; mention of Moylan, Gourlade [Goulard], Sam. Delap, T. H. Delap, Gardoqui, Leoganere. Signed by Franklin and Deane. — Note added, *Jan.* 17, 1778, by Lee. Disapproval of part of these orders. — Note added, *Jan.* 17, 1778, by Franklin and Deane. Confirmation of orders and reasons therefor. ff. (2).
- Printed, Sparks' Diplomatic correspondence, I. 361, where the name Leoganere is spelled Leagonere.
- [Dumas, K. W. F.]. *Jan.* 16, 1778. Letter from the Hague, in French, to Arthur Lee. News from Hamburg, Leyden, Magdeburg; William Lee; Franklin, Mansfield. Signed, D. ff. (2).
18. Schulenburg-Kehnert, Friedrich Wilhelm, *Baron de*. *Jan.* 16, 1778. Letter from Berlin, in French, to Arthur Lee. Expressions of friendship; arrangement about letters; Gen. Howe; promise of Prussia's acknowledgment, after France; permission for the purchase of guns and ammunition in Prussia. Indorsed, No. 8. ff. (2). (Imperfect — torn.)
- Translation printed, Sparks' Diplomatic correspondence, II. 125, which differs from the one on p. 19.
19. — Translation of the same by Arthur Lee. (Imperfect — edges much worn.)
- Printed, from this imperfect copy, in *Lee's Life of Arthur Lee*, II. 18.
- [Lovell, James]. *Jan.* 17, 1778. Copy of letter to [Arthur Lee?] in Paris. Robbery of the despatches to congress, sent through Capt. Folger. ff. (2).
- This seems to be to one of the commissioners, yet not to Franklin or Deane; but the doubt about its being to Lee comes toward the close, where Lovell asks his correspondent to "enquire of R. H. Lee's worthy brothers" concerning the nature of the inclosure sent to R. H. Lee.
20. Extracts, *Jan.* 20–28, 1778, from news at London and Brest of American events. In French. Superscribed, Monsieur Franklin. In the same handwriting as the notes from Malesherbes on p. 23. ff. (2).
- Stevenson, William. *Jan.* 21, 1778. Letter from Nantes to Arthur Lee. Capt. Nicholson; Carmichael's opinion of Deane and Izard. ff. (2).
21. Lloyd, John. *Jan.* 22, 1778. Letter from Nantes to Arthur Lee. Carmichael's opinion of Deane and Izard. ff. (2).
22. [Gardoqui, James]. *Jan.* 22, 1778. Letter from Madrid to Arthur Lee. Return from Madrid to Bilbao. Not signed. ff. (2).
- Bancroft, Edward. *Jan.* 22, 1778. Letter from Passy to Arthur Lee. Resentment at Lee's suspicion of him. ff. (2).
23. [Dumas, K. W. F.]. *Jan.* 23, 1778. Letter from the Hague in French to the commissioners. Prussia's refusal of passage to British mercenaries; assurances of friendship. ff. (2).
- Lamoignon de Malesherbes, Chrétien Guillaume de, *Minister of State*. *Jan.* 24, 1778. Note of invitation in French to Arthur Lee. William Lee; Sarsfield. f. (1).
- Note to Arthur Lee. Sarsfield. Not dated. f. (1).
24. Lee, Arthur. *Jan.* 27, 1778. Copy of letter to Carmichael. Demand for the despatches sent through him to Congress; with copy of Carmichael's reply refusing them. Indorsed, "Inclosed in Mr. Carmichael's information delivered in May 3, 1779." ff. (2).
- For original of Carmichael's, see p. 30.
- Cushing, Thomas, *Jr.* *Jan.* 27, 1778. Letter from Nantes to Arthur Lee. Capt. Nicholson; departure for America; charge of letters. ff. (2).
25. [Gardoqui, Joseph & Sons]. *Jan.* 28, 1778. Letter from Bilbao to Arthur Lee. Supplies for America. Signed, J. G. & Co. ff. (2).
26. Ross, John. *Jan.* 29, 1778. Letter from Nantes to the commissioners. Thomas Morris's condition of health; care of public papers. ff. (2).
- Lee, Arthur. *Jan.* 30, 1778. Copy of letter to Franklin and Deane. Dangerous consequences of the 12th article of the treaty of [amity and] commerce with France. With copy of reply, *Feb.* 1, 1778, agreeing to its omission. ff. (2).
- Printed, *Lee's Life of Arthur Lee*, I. 126; Sparks' Diplomatic correspondence, II. 127.
27. Lee, Thomas, *nephew of Arthur Lee*. *Jan.* 31, 1778. Letter to Arthur Lee. Carmichael's refusal to deliver the despatches asked for Jan. 27th, (see p. 24). ff. (2).
28. [Berkenhout, —, *Dr.* *Feb.* 1778.] Letter to [Arthur Lee]. Howe; Washington; Cornwallis; English political parties; America's independence; publication of a pamphlet against Franklin; Israel Mauduit; manufactories; Edmund Tully. Not dated, signed, or superscribed; addressed, "Amico charissimo." ff. (2).
- Franklin, Benjamin, and Deane, Silas. *Feb.* 1, 1778. Original of the reply to Lee, (see p. 26). 12th article of the treaty. f. (1).
- Printed, *Lee's Life of Arthur Lee*, I. 128; Sparks' Diplomatic correspondence, II. 129.
29. Stevenson, William. *Feb.* 1, 1778. Letter from Nantes to Arthur Lee. Carmichael's position toward Franklin, Deane, and Lee. ff. (2).
- Copies of portions of letters about Carmichael and Deane. *Jan.* 22, 1778. John Lloyd from Nantes to Arthur Lee, (see p. 21). — *Jan.* 24, 1778. The same to the same. — *Jan.* 21, 1778. William Stevenson to Arthur Lee, (see p. 20).

- *Feb. 1, 1778*. The same to the same, (see p. 29, above). (Imperfect — unfinished.)
30. **Franklin, Benjamin, and Deane, Silas.** *Feb. 1, 1778*. Copy of letter to Gerard. Omission of the 11th and 12th articles from the treaty. Attested by W. T. Franklin. With copy of Lee's letter on the same subject (see p. 26). ff. (2).
Printed, Lee's Life of Arthur Lee, I. 128; Sparks' Diplomatic correspondence, II. 130.
- Carmichael, William.** *Feb. 1, 1778*. Original of the reply to Lee's letter to him, (see p. 24). Delivery of despatches. ff. (2).
31. — Another copy of the same. Attested by Arthur Lee. f. (1).
32. **Affidavit, Feb. 2, 1778**, by Thomas Lee, Wm. Stevenson, and J. Thornton. Interview with Carmichael, (see pp. 24, 27, 30, 31, 32 below). In Thornton's handwriting. ff. (2).
- Lee, Thomas.** *Feb. 5, 1778*. Letter from Nantes to Arthur Lee. Interview of Ross with Carmichael; despatches for congress. ff. (2). (Partly illegible from a stain.)
- 33-39. **France and United States of America.** *Feb. 6, 1778*. Copy in French of the treaty of amity and commerce. Not signed, dated, or filled out completely and with the two disputed articles. ff. (14).
Printed, Martens' Recueil de traités, etc. 2^e éd. II. 537-602; and translation in Treaties, etc. between the U. S. and other powers, Washington, 1871, p. 244, etc.
40. — *Feb. 6, 1778*. Copy in French and English of the "Act separate and secret" of the treaty. Compared with the original by Arthur Lee. f. (1).
English translation printed, Treaties, etc. between the U. S. and other powers, p. 254.
41. **Commissioners to France.** [Sept. 1, 1778.] Déclaration. Draft in French of the act rescinding the 11th and 12th articles of the treaty. f. (1).
Printed, Martens' Recueil de traités, etc. 2^e éd. II. 602; and English translation in Treaties, etc. between the U. S. and other powers, p. 247.
42. **Lee, Arthur.** *Feb. 9, 1778*. Letter to F. L. Lee. Treaty with France; conduct of Carmichael and Deane. Addressed, "Dr. Loudon." ff. (2).
Printed, Lee's Life of Arthur Lee, II. 132.
- Copies of portions of letters about Carmichael and Deane. The same as those on p. 29. With the addition of one dated *Feb. 10, 1778*, from Lloyd to Lee. ff. (2). (Imperfect — unfinished.)
43. **Goulard, J. C. F. & fils, Merchants at L'Orient.** *Feb. 10, 1778*. Letter in French from Frankfort to Arthur Lee. Receipt of letter; American news [Burgoyne's surrender]; proffers of friendship. ff. (2).
- [Wharton, Joseph]. *Feb. 11, 1778*. Letter to [Major John?] Thornton. Complaint about letters. Signed, "Tudyuscung"; indorsed, N^o 4. Certified to be Wharton's handwriting by M. Livingston, *July 13, 1778*, and by Matthew Mease, *July 29, 1778*. ff. (2).
44. **Sarsfield, —, Comte de.** *Feb. 14, [1778]*. Note in French to Arthur Lee. Invitation to dinner with Malesherbes and Franklin. With seal. ff. (2).
45. **Lee, Arthur.** [Feb. 15, 1778.] Draft of letter to the committee of foreign correspondence Beaumarchais; Lauregais; Wilkes; Deane. f. (1).
This is marked P. S. and is without date. Printed, with verbal differences, in Sparks' Diplomatic correspondence, II. 134, where it stands not as a P. S. but bears the date Feb. 15, 1778, and is addressed, "Gentlemen"; it also has there an additional sentence and the testimonial of Lauregais.
46. **Pasteur, William.** [Feb. 16, 1778.] Letter from Williamsburg, Va., to William Lee. Request for goods for the Williamsburg manufactory; John King; John Greenhow; Saml. Gist. With invoice. ff. (3).
47. **Pringle, John Julius.** *Feb. 17, 1778*. Extrait d'un discours fait par Mons^r. C. Fox & publié dans le courier de l'Europe 24. Fev 1778." Franklin's intelligence that the treaty was signed. f. (1).
With a note added by Sparks, "Dr. Franklin's name is not mentioned by Mr. Fox. — See 'Parliamentary Register' of the above date" [Feb. 17, 1778].
48. **Lee, Ludwell, nephew of Arthur Lee.** The same extract copied from the Courier. With note, "*Feb. 18, 1779* Copy compared by John Adams." f. (1).
With a note by Sparks similar to that on the last paper.
- [Lee, William]. *Feb. 17, 1778*. Letter from Nantes to F. L. Lee. Thomas Morris; John Ross; Robert Morris; Schweighauser; John Bondfield; treaty; German embassy; military situation of England; Washington; Samuel Adams; Dr. Shippen. Not signed; addressed, "My Dear Loudoun." ff. (2).
49. [Hartley, David, M. P.]. *Feb. 18, 1778*. Letter from London to John Thornton. Lord North; conciliation; treaty. Signed, "D H". f. (1).
- Lloyd, John. *Feb. 18, 1778*. Letter from Nantes to [Arthur Lee]. Carmichael; Deane; Franklin; Williams. Addressed, "Dear Sir"; not superscribed. ff. (2).
50. [Gardoqui, Joseph & Sons]. *Feb. 18, 1778*. Letter from Bilbao to Arthur Lee. Shipment of supplies for America. Signed, J. G. & Co. ff. (2).
- Franklin, Benjamin, and Deane, Silas.** *Feb. 22, 1778*. Copy of letter to [C. A. Gerard]. Rumor of treaty between Howe and Washington; Hartley's letter of Feb. 18, (see p. 51). ff. (2).
See Sparks' Franklin, VIII. 232, note, where a portion is printed as addressed to Vergennes with date Feb. 1. Franklin himself says, in a letter to Lee on p. 241 of the same volume, that he wrote this to Gerard. As the communications to Vergennes were usually through Gerard, this is probably the explanation of Vergennes' name in Sparks' note.
51. **Copies of letters between Franklin, Deane, and Lee.** Return of despatches by Simeon Deane; acknowledgment of the commissioners by the French court. *Feb. 26, 1778*. Lee to Franklin and Deane. — *Feb. 27, 1778*. Franklin and Deane to Lee. — *Feb. 27, 1778*. Lee to Franklin and Deane. — *Feb. 28, 1778*. Franklin and Deane to Lee, (see p. 52). ff. (2).
The first two are printed in Sparks' Diplomatic correspondence, II. 136, 137.
52. **Ross, John.** *Feb. 26, 1778*. Letter from Nantes to Arthur Lee. Thomas Morris; Robert Morris; complaint about William Lee's interference. ff. (2).

- Franklin, Benjamin, and Deane, Silas.** *Feb. 28, 1778.* Letter to Arthur Lee. Copying of the treaties; sailing of a convoy. f. (1).
This is the original of the last copy on p. 51.
53. 54. [**Commissioners to France**]. *Feb. 28, 1778.* Copy of letter to the committee for foreign affairs. Return of despatches; conclusion of the treaty of amity and commerce; Lord North's conciliatory bills; future prospects of America; friendship of France; Babson and Hendricks; William Lee and Thomas Morris; Bermudas; Newfoundland. Attested by W. T. Franklin. ff. (4).
Printed, Sparks' Diplomatic correspondence, I. 369; Lee's Life of Arthur Lee, I. 330.
55. **Izard, Ralph.** *Feb. 28, 1778.* Letter to Arthur Lee. Acknowledgment of the commissioners at the French court. f. (1).
Williams, Jonathan. *Feb. 28, 1778.* Letter from Nantes to the commissioners. Sailing of fleet from Quiberon; detention of the Duchesse de Grammont; credit with Grand; cost of fitting the Ranger; agreement with Thomas Morris; escape of Capt. Johnson of the Lexington. ff. (2).
56. **Chaumont, Le Ray de.** *March 1, 1778.* Letter, in French, from Passy to Arthur Lee. Despatches. f. (1).
57. **Franklin, Benjamin, and Deane, Silas.** *March 1, 1778.* Note to Arthur Lee. Despatches; change of appointment.—Note added by W. T. Franklin. Lee's engagement to dinner with Messrs. Chalut. f. (1).
Chaumont, Le Ray de. *March 1, 1778.* Letter, in French, from Passy to M. De Kater at Bordeaux. Lee's despatches. ff. (2).
58. [**Thornton, John, major**] (?). *March 3, 1778.* Note from London to [the commissioners?]. Troops to Canada, Newfoundland; Lord George Germain; Portsmouth; rumor that France will declare the independency of America. Not signed or addressed. Indorsed, Thornton. ff. (2).
Franklin, William Temple. *March 1, 1778.* Note to Arthur Lee. Copying letter to congress. With seal. ff. (2).
59. **Essay** in French, *March 1, 1778.* Conciliatory propositions of Great Britain; treaty with France. Not signed or addressed. ff. (2). (Imperfect—worn.)
60. **Franklin, Benjamin, and Deane, Silas.** *March 3, 1778.* Note to Arthur Lee. Appointment; despatches by Austin. ff. (2).
Commissioners to France. *March 4, 1778.* Copy of note to C. A. Gerard. Appointment. f. (1).
Gerard, Conrad Alexander. *March 4, 1778.* Answer to the commissioners. f. (1).
61. **Llano, —, Marquis de, Ambassador from Spain to Sweden.** *March 5, 1778.* Note in French to Arthur Lee. Acceptance of an invitation to meet Franklin. f. (1).
Franklin, Benjamin. *March 5, 1778.* Note to Arthur Lee. Acceptance of invitation. ff. (2).
62. **Franklin, Benjamin.** *March 6, 1778.* Copy of letter to William Lee. Appointment of commercial agents; Williams; Thomas Morris's papers.—*March 12, 1778.* Copy of William Lee's reply. Indorsed, "39 f." Attested by William Lee. ff. (2).
Part of the former printed, Sparks' Diplomatic correspondence, II. 164, note.
- Thornton, John (?), major.** *March 7, 1778.* Receipt to Henry Grand for £21 (twenty-one pounds). f. (1).
63. **Ross, John.** *March 12, 1778.* Letter from Nantes to the commissioners. Thomas Morris's papers; William Lee; departure of vessels from Nantes; Arthur Lee; the Revenge; Hodge; disputes about the commercial business. Indorsed by Arthur Lee, June 26, 1778, "This Letter was not shewn to me." ff. (2).
64. [**Gardoqui, Joseph & Sons**]. *March 14 (?), 1778.* Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2).
The day of the month is illegible from having been altered.
65. **Franklin, Benjamin.** *March 17, 1778.* Letter to Arthur Lee. Departure of Beaumartin's packets from Bordeaux; presentation of bills drawn by Hancock and Lawrence; request for an interview. With note added by Lee appointing an interview. ff. (2).
Franklin's letter printed, Sparks' Franklin, VIII. 248.
Gerard, C. A. *March 17, 1778.* Note in French to the commissioners. Appointment for their presentation at court. ff. (2).
Translation printed, Sparks' Diplomatic correspondence, I. 374.
66. **Memorandum, March 17, 1778.** Shipment of Izard's effects by "Benjamin et Calverley Berwick" in the ship Nile, Capt. Goldsmith, for A. M. Mantinelli, Leghorn, to send to Abbé Niccoli. In French. ff. (2).
This ship was taken by a French privateer, and her goods, including Izard's, confiscated to the captors. Several letters on the subject passed between the commissioners, Vergennes, Izard, and Sartine, in September and October, 1778. See Sparks' Diplomatic correspondence, I. 459-461, 467, 470-475, 478, 479.
[**Bridgen, Edward**]. *March 18, 1778.* Letter to [Arthur Lee]. Introduction of Garnier; respects to Franklin; William Lee; Sayre. Indorsed, "M. Garnier never came near me." ff. (2). (Imperfect—signature torn out.)
Printed, Lee's Life of Arthur Lee, II. 87.
67. [—]. *March 18, 1778.* Letter to the same. Sending of newspapers; Gerard; Garnier; direction of letters. Not signed; superscribed, "Mons. Alexander Johnstone." ff. (2).
With a request, in the closing paragraph, that his signature to the preceding letter be cut out or the letter burned.
- Chaumont, Le Ray de.** *March 23, 1778.* Note in French to Arthur Lee. Packages from Garnier. ff. (2).
68. **Ross, John.** *March 23, 1778.* Letter from Nantes to Arthur Lee. Thomas Morris's papers; William Lee; Deane; recriminations. ff. (4).
69. **Franklin, Benjamin.** *March 24, 1778.* Copy of note to William Lee. Treaty to be kept secret. f. (1).
Lloyd, John. *March 24, 1778.* Letter from Nantes to [Arthur Lee]. Presentation of commissioners; Ross. ff. (2).
70. [**Lee, Arthur.** *Between March 24 and April 1, 1778.*] Letter to F. L. Lee. Recommendation of Mr. Archer; Ross and Williams; Robert Morris; Deane. Not signed. ff. (2).

71. **Lacolsqueta**, Josef de. *March 24, 1778*. Letter from Cadiz, in Spanish, to Benjamin Franklin. Capture of the Fortuna, Capt. Bertrand Renguen; rights of neutrals. ff. (2).

72. **Ross**, John. *March 28, 1778*. Letter from Nantes to Arthur Lee. Credit of Willing, Morris & Co.; Schweighauser; Gardoqui; William Lee. ff. (2).

73. **Gardoqui**, James. *March 30, 1778*. Letter from Madrid to Arthur Lee. Fleet at Havana; Lord Grantham's brother. ff. (2).

Mortimer, Charles. *March 31, 1778*. Letter from London to Arthur Lee. Misfortunes; desire to return to Virginia; request for protection; William Lee. ff. (2).

74. **Franklin**, Benjamin. *March 31, 1778*. Copy of letter to Henry Laurens, as president of congress. Testimony to Deane's character and services. ff. (2).

Printed, Sparks' Franklin, VIII. 255; Sparks' Diplomatic correspondence, I. 120.

75. **Gerard**, C. A. *April 1, 1778*. Copy of note, in French, to Arthur Lee. Departure for America. With copy of answer. f. (1).

Translation and answer printed, Sparks' Diplomatic correspondence, II. 144.

76. **Sarsfield**, —, *Comte de*. *April 3, 1778*. Letter, in French, to [Arthur Lee]. Invitation to dine with Duchess d'Enville; maps of Spain. ff. (2).

77. **Emery**, John. *April 4, 1778*. Letter from Bilbao to Benjamin Franklin. Trouble about prizes: — Capt. Babson, Capt. Hibbert of the Hawke, Wood of the Britannia, Capt. John Allen; firm of Lynch, Killikelly & Maroney; Capt. Hodge; Burgoyne. ff. (2).

78. **Statement**, [April, 1778], in Spanish. The same affair of Capts. Hibbert, Wood, and Allen; John Emery; Manuel Gomez; Patrick MacMahon. No date or signature. ff. (2).

79. **Ross**, John. *April 6, 1778*. Letter from Nantes to Arthur Lee. Willing, Morris & Co.; recriminations. ff. (2).

Gamba & Archdeacon. *April 6, 1778*. Letter, in French, from Dunkirk to [Benjamin Franklin?]. Clearance of bottles of rum. Not superscribed. f. (1).

80. **Lenoue**, —. *April 7, 1778*. Note from Paris to Arthur Lee. Passport for Letellier. Indorsed, N. 4. ff. (2).

[Jennings, Edmund. *April 7 (?) 1778*.] Letter to [Arthur Lee]. "Rescript" of French ambassador; effect on England; Sardinian embassy; peace with America; Gov. Johnstone; Chatham; Gen. Conway; [Sir William Meredith]; Lord North; Burke; pamphlet on the conciliatory bills. Not dated; signed, Duncan Donaldson; superscribed, Monsieur Johnstone. ff. (2). (Imperfect: — torn.)

81. **Blake**, William. *April 8, 1778*. Letter from Nantes to [Arthur Lee?]. Departure for America; offer to take letters for Izard and Arthur Lee; desire for convoy. Not superscribed. f. (1).

Dumas, K. W. F. *April 10, 1778*. Letter, in French, from the Hague to the commissioners. Relation between Holland and England; Van Berckel; Ostend, Dort, Haarlem, Amsterdam, Zealand; Deane; Arthur Lee. ff. (2).

82. **Enumeration**, *April 10, 1778*, of French fleet. In French, dated Brest. D'Estaing; Keppel; Howe. ff. (4). (Partly illegible from stains.)

83. **Franklin**, W. T. [April 10, 1778.] Note in behalf of Dr. Franklin to Arthur Lee. Presentation of John Adams; François, Garnier, Vergennes, Maurepas. Not dated. ff. (2).

84. **Vergennes**, C. G., *Comte de*. *April 11, 1778*. Letter from Versailles to Franklin and Lee. Arrival of John Adams. ff. (2).

Livingston, M., *Capt*. *April 11, 1778*. Attestation. Bancroft; Wharton; treaty with France known in England. Witness, Geo. Digges. Indorsed, N^o. 6. f. (1).

See Papers in relation to the case of Silas Deane, p. 159, etc.

85. **Bondfield**, John. *April 14, 1778*. Letter from Bordeaux to Arthur Lee. Departure of vessels; supply of clothes for soldiers. ff. (2).

Digges, George. *April 14, 1778*. Statement, dated Paris. Capt. Barnett; Eugene; Capt. MacFarlin [MacFarland]; Chaumont; Capt. Tucker. Indorsed, "Digges v. Chaumont," and "Thornton." f. (1).

86. [Mauduit, Israel]. *April 16, 1778*. Copy of paper on British prospects in America; peace, and acknowledgment of independence; war with France. Copied by Arthur Lee at this date and indorsed, "Written by Mr. Mauduit by the direction of Ld. North & circulated under the Orders of Administration." ff. (2).

Printed, Remembrancer, VI. 115, where it is stated that it was written about March 13, 1778, and "circulated at the doors of the two Houses of Parliament."

Vergennes, C. G., *Comte de*. *April 17, 1778*. Copy of letter, in French, to Arthur Lee. Thanks for news. Copy certified by H. Ford, sec'y. f. (1).

87. **Williams**, Jonathan. *April 18, 1778*. Letter from Nantes to [Benjamin Franklin?]. Conflict of commercial powers; Arthur Lee; William Lee; Schweighauser. ff. (2).

88. **Limoxin**, Andrew. *April 18, 1778*. Letter from Havre de Grace to Arthur Lee. Capt. Hynson; Deane; Carmichael; Folger; Robert Morris; William Lee; John Adams. ff. (4).

89. **Dufoucq**, —. *April 18, 1778*. Mémoire, from Bayonne. Claims upon the ship Sally from Salem; Capt. Thomas; Payez; Gardoqui; Bassecourt; Boussignac; Ossun; Boyetet; Florida Blanca; Hozé; Birmingham; Babington; Lamy. In French. ff. (2).

90. **Vergennes**, C. G., *Comte de*. *April 19, 1778*. Copy of letter, in French, to Arthur Lee. Thanks for English paper. Copy certified by H. Ford, sec'y. f. (1).

[Morris, Robert]? *April 22, 1778*. Copy of letter from Manheim to John Langdon. Settlement of secret committee's accounts. Copy compared by Wm. Duer, sec'y. Signature worn or torn off. f. (1). (Imperfect — bottom worn off.)

91. **Lee, Arthur.** *April 24, 1778.* Copy of letter to Count Vergennes. David Hartley. "Duplicate copy from the Letter Book," certified by H. Ford, sec'y. f. (1).

Printed, Sparks' Diplomatic correspondence, II. 156; Lee's Life of Arthur Lee, I. 143.

Vergennes, C. G., Comte de. *April 24, 1778.* Copy of answer, in French, to the last paper. Same subject. Certified by H. Ford, sec'y. f. (1).

Translation printed, Sparks' Diplomatic correspondence, II. 157; Lee's Life of Arthur Lee, I. 144.

92. —. *April 24, 1778.* Original of the last paper. With translation by Lee. ff. (2).

Bondfield, John. *April 25, 1778.* Letter from Bordeaux to Arthur Lee. Barnet; MacFarland; affairs in Virginia; King. ff. (2).

93. [**Jennings, Edmund**]. *April 26, 1778.* Letter to [Arthur Lee]. Condition of England; books; Gov. Johnstone; Ferguson; "Common Sense." Signed, Donald McGregor; super-scribed, John Pringle. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 91.

94. **Sartine, Antoine Raymond Jean Gualbert Gabriel de, Minister of Marines.** *April 26, 1778.* Letter, in French, from Versailles to the commissioners. Protection of American commerce and ships of war. ff. (2).

95. [**Gardoqui, James**]. *April 27, 1778.* Letter from Madrid to Arthur Lee. Acknowledgment of commissioners; John Adams; Silas Deane; prizes; Spanish flotta. Not signed. ff. (2).

— Note without date, address, or signature. Manufactures; Cunningham; privateers. Marked, "Found enclosed in Letter to Arthur Lee of 27th April, 1778." f. (1).

96. **Bondfield, John.** *April 28, 1778.* Letter from Bordeaux to Arthur Lee. Sailing of packets; MacFarland; Barnet; Chaumont; Livingston; Izard. ff. (2).

97. **Vergennes, C. G., Comte de.** *April 29, 1778.* Letter from Versailles, in French, to the commissioners. Protection of American commerce at Nantes and Bordeaux; convoy; reply of Sartine. f. (1).

98. —. *April 29, 1778.* Letter, in French, to Arthur Lee. Robbery of papers; Cavillon. Indorsed, "On Folger's robbery." ff. (2).

99. **Gannan, Bartholomew.** *April 29, 1778.* Letter from Dunkirk to [Arthur Lee]. Acquaintance with William Lee; request for appointment of his son, James Gannan, as agent at Dunkirk. ff. (2).

[**Bridgen, Edward**]. *April 29, 1778.* Letter to Arthur Lee. Books from Dr. Price to Franklin; Gov. Johnstone; Israel Mauduit's pamphlet; Cartwright's letter to Lord Abingdon; Garnier; George III. Not signed. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 89.

Thornton, [John, Major]. *April 30, 1778.* Receipt for thirty Louis d'or from Arthur Lee. f. (1).

Written on a portion of a copy of letter from the committee of Congress of which only the name Charles Thomson remains.

100. **Lovell, James.** *May 3, 1778.* Letter from York, [Penn.] to Arthur Lee. Imprisonment at Boston and Halifax; William Powell; Gage; Howe; feeling toward Great Britain. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 292.

- 101-110. **Continental Congress, Second.** *May 4, 1778.* Ratification of the treaty of amity and commerce with France. With copy of the treaty and a form of passports and letters for ships, in English and French. Signed, Henry Laurens; attest: Chas. Thomson, sec'y. With seal. ff. (20).

This was one of the six official copies sent by Congress to its commissioners in Europe; see Journals of Congress, IV. 259, 260.

111. —. *May 4, 1778.* Copy of resolution of thanks to France for the treaties. Signed, Chas. Thomson, sec'y. ff. (2).

See Journals of Congress, IV. 257.

112. [**Gardoqui, James**]. *May 4, 1778.* Letter from Madrid to Arthur Lee. Supplies for America. Not signed. ff. (2).

Continental Congress, Second. *May 5, 1778.* Copy of resolution desiring the abolition of the 11th and 12th articles of the treaty of amity and commerce. Signed, Chas. Thomson, sec'y. ff. (2). (Stained.)

See Journals of Congress, IV. 258.

113. **Adams, John.** *May 5, 1778.* Note to Arthur Lee. Invitation from Vergennes to the commissioners. ff. (2).

[**Dumas, K. W. F.**]. *May 5, 1778.* Letter from the Hague, in French, to the commissioners. Inclosure of French translations of German letters received by him, dated *Hamburg, May 1, 1778*, and *Berlin, April 26, 1778* (the latter on p. 114). Preparations of Prussia for war with Austria. Signed, D. ff. (4).

114. **Dohrman, Arn^{do} Enrico.** *May 5, 1778.* Copy of news, in French, sent to K. W. F. Dumas. French and English prizes in Portuguese ports; Deane frigate; the Dauphin, Capt. Israel Turner; the Alarm, Capt. Robert Mann; the Cuningham. Copied by Dumas. ff. (2).

115. [**Dumas, K. W. F.**]. *May 7-15, 1778.* Letter from the Hague, in French, to the commissioners. Interviews with Van Berckel and others; endeavors to obtain the friendship of Holland. Not signed. ff. (4). (Imperfect — unfinished.)

116. **Continental Congress, Second.** *May 7-9, 1778.* Copy of resolutions. Expenses of the commissioners; captains in the navy. Signed, Chas. Thomson, sec'y. f. (1).

See Journals of Congress, IV. 266, 276.

117. —. Another copy of the resolves of May 7, above (p. 116).

Bondfield, John. *May 8, 1778.* Letter from Bordeaux to the commissioners. Arrival of ships from Savannah and Charleston; disposal at Cadiz of Cunningham's prizes; MacFarland, Barnet. ff. (2).

118. **Continental Congress, Second.** Another copy of the resolves of May 9, above (p. 116).

119. **Chaumont, Le Ray de.** *May 11, 1778.* Letter, in French, to Arthur Lee. Receipt of letter from Monthieu. f. (1).

120. **Gardoqui, James.** *May 11, 1778.* Letter from Madrid to Arthur Lee. Bills on Paris banks. ff. (2).

Copies, May 12, 1778, of letters to and from Arthur Lee. 1. Lee to Chaumont, in French. Answer to that on p. 119; Monthieu's letter. — 2. Lee to Lord —. Assurance of esteem; Abbé Raynal; Barré; Dunning; Priestley; Price. (Imperfect — first part torn off.) — 3. Chaumont to Lee. Copy of the above (p. 119). Indorsed, "True copies from the Letter Book. (duplicates) H. Ford, sec'y." Also in Adams's handwriting, "Compared by John Adams." f. (1).

121. [**Jennings, Edmund.**] *May 12, 1778.* Letter to [Arthur Lee]. Chatham's death; Barré; Rigby; Dunning; Pultney; Townsend; policies; insurance; trade; Howe; Clinton; the Ranger. Signed, Malcolm Derimpre; addressed, Mons^r Johnstone. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 104.

Bondfield, John. *May 12, 1778.* Letter from Bordeaux to Arthur Lee. Mr. Hewes of Edenton, Va.; Barnet; Chaumont; Capt. Barry; Thomas Morris; Robert Morris; Willing & Morris; privateering. ff. (2).

122. **Gardoqui, Joseph & Sons.** *May 13, 1778.* Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2).

123. **Continental Congress, Second — Committee for Foreign Affairs.** *May 14, 1778.* Copy of letter to Arthur Lee. Receipt of letters; despatches through Deane and Capt. Young; Prussia; "Rodrique Hortalez & Co."; commerce of America; Gardoqui; treaties with France; finance, depreciation of paper money. Signed, Rich^d. Henry Lee, James Lovell, Rob^t. Morris. ff. (2).

Printed, Sparks' Diplomatic correspondence, II. 159.

124. —. *May 14, 1778.* Letter to the commissioners. Disposition of America; conciliatory bills; Howe; Washington; despatches through Deane; treaties with France; 11th and 12th articles of treaty of amity and commerce; misconduct of American armed vessels. Signed, Richard Henry Lee, James Lovell. Indorsed, "Duplicate" and "N^o 7." ff. (2).

Printed, Sparks' Diplomatic correspondence, I. 388.

125. —. *May 15, 1778.* Extract from letter to the commissioners. 11th and 12th articles of the treaty. — With extract from the letter of May 14, (p. 124). Same subject. In R. H. Lee's handwriting. f. (1).

126. —. *May 15, 1778.* Another extract from the same letter of this date. Payment of tobacco according to contract. With summary of resolutions passed on May 16. "Hortalez & Co." In R. H. Lee's handwriting. f. (1).

For the full letter of May 15, 1778, see Sparks' Diplomatic correspondence, I. 393.

127. [**Thornton, John, Major.**] *May 16, 1778.* Letter from London to [Arthur Lee?]. Portsmouth; English fleet; arrival of Burgoyne; Washington; [Bancroft, Wharton], Franklin, Deane; Chatham, Camden; privateers; Jersey and Guernsey. Not signed or addressed; indorsed, "Thornton about going to Jersey N^o 4." ff. (2). (Imperfect — torn.)

128. [**Jennings, Edmund.**] *May 19, 1778.* Letter to [Arthur Lee]. Advice; "stock-jobbing"; Townsend; "MacGregor"; D'Estaing's squadron at Toulon; Walpole; Burgoyne; Capt. Jones; Franklin; the Alfred and Raleigh; [Thornton]. Signed, Donald MacDonald; not superscribed; addressed, "My Dear Nephew," and worded throughout as if advice to a young man just starting in business. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 102.

Franklin, Benjamin. *May 19, 1778.* Note of invitation to Arthur Lee. Bertin; Chalut. ff. (2).

On the reverse is a copy of a note from Arthur Lee, *June 7, 1779*, to Count d'Aranda, transmitting memorial. There are besides parts of lines of another letter and the separate indorsements, "Invitations," "Spanish Papers," "Papers used in the No 3^d of Appendix to the Memoir of A. L." The note from Lee to Count d'Aranda is printed in this appendix, Lee's Life of Arthur Lee, I. 277.

129. **Thornton, John, Major.** *March 10, May 7, 16, 21, 1778.* Copies of letters and intelligence to Arthur Lee, numbered 1-5. 1. Account of forces in Great Britain, *March 18, 1778.* — 2. *March 10.* Letter in French. British commissioners to America; prisoners at [Portsmouth or Plymouth]; expenses; Lord Carlisle, Eaton, Jackson, Palliser, Wharton, Grand. — 3. *May 7.* Letter from London. Information about American secret negotiations "from R—'s lady." — 4. *May 16.* Copy of the letter on p. 127. — 5. *May 21.* Letter from Portsmouth. Strength of British fleet. ff. (4).

130. **Lenoue, —.** *May 21, 1778.* Letter to Arthur Lee. Carmichael's servant. ff. (2).

This is probably in reference to the investigations concerning the robbery of the despatches sent through Capt. Folger.

[**Ridley, —**] ? *May 22, 1778.* Letter to [Arthur Lee?]. Warnings about treachery; Virginia goods; Burgoyne; Capt. Solomon Townsend; the Randolph and Yarmouth. Not signed or superscribed; indorsed, Ridley. ff. (2).

131. **Coffyn, Fran^s.** *May 23, 1778.* Letter from Paris to the [commissioners]. Inclosure of copy of a memoir made in 1777 at request of Carmichael on the advantages of the port of Dunkirk to the American trade. Not superscribed. ff. (2).

- 132-135. —. Mémoire, referred to in the last paper (p. 131). In French. Not signed or dated. pp. 8. (Imperfect — edges worn.)

136. **Bondfield, John.** *May 26, 1778.* Letter from Bordeaux to Arthur Lee. Fulfilment of commissions; D'Estaing; fleet at Cadiz. Indorsed, "Advertisement abt. Byrons fleet. N^o. 2." ff. (2).

Lloyd, John. *May 28, 1778.* Letter from Nantes to Arthur Lee. Departure for America; despatches and credentials; William Lee. ff. (2).

137. [**Dumas, K. W. F.**] *May 29, 1778.* Letter from the Hague, in French, to the commissioners. Presentation of letter from the commissioners to the grand pensionary announcing the treaty with France; [Van Berckel]; ambassadors from France, Spain, and England; friendly disposition of the states general; Welderen; Howe; death of Chatham; arrival of Burgoyne in England. With French transla-

- tion of a German letter to Dumas from Berlin, May 26, 1778. Preparations for war. Signed, D. ff. (3).
138. **Williams, Jonathan.** May 29, 1778. Copy of account at Nantes with the commissioners. Certified by H. Ford, sec'y. With copy of charges, Nov. 15, 1777, of S. & I. (?) H. Delap of Bordeaux and Jean Sabatier & fils of Montpellier on the same goods. Certified by H. Ford, sec'y; witness, William Lee. ff. (2).
- [**Thornton, John, Major.**] May 30, 1778. Letter to [Arthur Lee]. Admiral Byron's fleet; Admiral Keppel; additional information in England about the secret negotiations of the commissioners in France; repetition of particulars given in letter of May 7 (see p. 129). Not signed or superscribed; indorsed, "Thornton." ff. (2).
139. [**Wharton, Samuel.**] June 1, 1778. Letter to [Dr. Edward Bancroft]. Thornton's exposure of secrets of the commissioners. Not addressed; signed, "P—a C—o"; indorsed, No. 1. Evidently in a disguised hand. — Another letter from the same to the same. Same subject. Not signed or dated; superscription crossed out; indorsed, "No 2." ff. (2).
- [**Chaumont, Le Ray de.**] Note about letters; Cavillon. Not signed, dated, or superscribed; indorsed, "M. de Chaumont's note." and in pencil by a later hand, "June (?) 1778." f. (1).
- Part of the investigation concerning the robbery of the despatches sent by Folger; see Vergennes' letter to Arthur Lee of April 29 (p. 98).
140. [**Ridley, —.**] June 2, 1778. Letter to Arthur Lee. Introduction of Rev. Hezekiah Ford (afterwards Lee's secretary); news from America; reception of the conciliatory bills; the Virginia, Nicholson; parliament and ministry; Keppel; Howe, Clinton; Ireland; embargo; press. Not signed; indorsed, Ridley. ff. (2).
- [**Gardoqui, James.**] June 4, 1778. Letter from Aranjuez to Arthur Lee. Supplies for America; Cunningham. Signature probably cut out. ff. (2).
141. [**Ridley, —.**] June 5, 1778. Letter to Arthur Lee. [Hartley's] motion in the house of commons for recognizing the independence of America; fleet at Toulon; exchange of prisoners. Not signed; indorsed, Ridley. ff. (2).
- Vergennes, C. G., Comte de.** June 5, 1778. Letter, in French, to Arthur Lee. Aid [for Virginia] from Prince de Montbarey. With translation. Indorsed, No. 1. ff. (2).
- Translation printed, Lee's Life of Arthur Lee, I. 413.
142. **Montbarey, Alexandre Marie Léonor DE SAINT MAURIS, Comte and Prince de, Minister of War.** June 5, 1778. Copy of letter, in French, to Vergennes. Supplies for Virginia. f. (1).
143. **Vergennes, C. G., Comte de.** June 5, 1778. Copy of letter on p. 141. Certified by H. Ford, sec'y. f. (1).
- [**Thornton, John, Major.**] June 8, 1778. Letter to — (?) Change of ministry, North, Gower, Jenkinson, Stormont, Suffolk; fear of French invasion, preparations; Capt. Jones; Keppel; De Chartres; Scotch and Irish; British affairs in America; Sir Wm. Howe. Not signed or superscribed; indorsed, Thornton. ff. (2):
144. [**Ridley, —.**] June 9, 1778. Letter to Arthur Lee. Introduction of Ogden; Percival; Franklin; Capt. Collis. Not signed; indorsed, Ridley. ff. (2).
- Vergennes, C. G., Comte de.** June 10, 1778. Copy of letter, in French, to Arthur Lee. Thanks for news from London. Certified by H. Ford, sec'y. f. (1).
- Jones, William, Capt.** June 10, 1778. Two receipts to Arthur Lee for 453 livres. f. (1). (Imperfect — torn.)
145. **Emery, John.** June 10 or 11, 1778. Letter from Bordeaux to Arthur Lee. Capt. John Allen; Dr. Smith of the Revenge; Cunningham. ff. (2).
- See also pp. 77, 78, on Allen's affair.
- [**Gardoqui, James.**] June 11, 1778. Letter from Madrid to Arthur Lee. Remittances. Not signed. ff. (2).
146. **Sartine, A. R. J. G. G. de.** June 12, 1778. Letter, in French, to Arthur Lee. Detention of prisoners by Americans in French ports. ff. (2).
147. **Montbarey, A. M. L. DE S. M., Comte and Prince de.** June 13, 1778. Letter, in French, to Arthur Lee. Supplies for Virginia. Indorsed, "No. 4," and afterwards, "No 2." With translation. ff. (2). (Imperfect — torn.)
- Translation printed, Lee's Life of Arthur Lee, I. 413.
- [**Gardoqui, James.**] June 15, 1778. Letter from Madrid to Arthur Lee. Remittances. Signed, J. G. ff. (2).
148. **Lee, Arthur.** [June 14, 1778.] Copy of letter to Vergennes. 12th article of the treaty. — With translation of Vergennes' reply, June 15, 1778. f. (1).
- Both printed, with verbal differences, in Sparks' Diplomatic correspondence, II. 171-173.
149. [**Dumas, K. W. F.**] June 15, 1778. Extracts, in French, from French and Dutch papers and from despatches of ministers. Reception of William Lee at Vienna; disposition of the Dutch government. With a printed slip from newspaper containing what is quoted on the first sheet. One signed, D, and directed to the commissioners; the others unsigned. ff. (4), and slip.
150. [**Ridley, —.**] June 16, 1778. Letter to Arthur Lee. Introduction of William Moore; Keppel. Not signed. ff. (2).
- [**Gardoqui, James.**] June 18, 1778. Letter from Madrid to Arthur Lee. Remittances; supplies for America. Not signed. ff. (2).
151. **Sartine, A. R. J. G. G. de.** June 20, 1778. Letter, in French, to Benjamin Franklin. Schweighauser; prizes. ff. (2).
152. **Continental Congress, Second — Committee for Foreign Affairs.** June 21, 1778. Copy of letter from York, Penn., to the commissioners. Arrival of commissioners for peace; Clinton's evacuation of Philadelphia; Washington;

Holker. Signed, Richard Henry Lee, Thos. Heyward, Jun^r., James Lovell. Copy attested by Arthur Lee. Indorsed, No. 1. ff. (2).

Printed, Sparks' Diplomatic correspondence, I. 402.

153. [Gardoqui, James]. *June 22, 1778*. Letter from Madrid to Arthur Lee. Remittances. Signed, J. G. ff. (2).

[Thornton, John, Major]. *June 24, 1778*. Letter to [Arthur Lee?]. Fears of French invasion; Keppel; Washington; Clinton; Howe. Superscribed, "Alex^r Johnston"; not signed. ff. (2).

This is supposed to be to Arthur Lee from the superscription being the same which is used as a cover by Bridgen and Jennings to conceal their communications. The tone of the letter, however, as well as of that of June 8 (on p. 143), is of a sympathizer with Great Britain. If this were for purposes of concealment, probably the letter of June 8 was to Lee also. But it would seem that Lee and Thornton had no communication with each other at that time; as appears by Papers in relation to the case of Silas Deane, p. 163, and Ridley's letter of June 2 (see p. 140 of this volume).

154. Commissioners to France. *June 25, 1778*. Letter to the legislature of South Carolina. Absence of Miss Stevens from Carolina. In Arthur Lee's handwriting. f. (1). (Imperfect—much torn.)

[Gardoqui, James]. *June 25, 1778*. Letter from Madrid to Arthur Lee. Remittances. Signed, J. G. ff. (2).

155. Sartine, A. R. J. G. G. de. *June 26, 1778*. Letter, in French, to the commissioners. Capt. William Castle. ff. (2).

156. [Dumas, K. W. F.]. *June 19, 23, 26, 1778*. Letter from the Hague, in French, to the commissioners. Reception of William Lee at Vienna; disposition of Holland. Signed, D. ff. (2).

[Gardoqui, Joseph & Co.]. *June 27, 1778*. Letter from Bilbao to Arthur Lee. Departure of Capt. Hodge and Capt. West; supplies for America; Capt. Cunningham. Signed, J. G. & Co. ff. (2).

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1. [Bridgen, Edward]. *July 2 (?) , 1778*. Letter to Arthur Lee. Thornton, Bancroft, Wharton; ambassador from Spain; Washington. Date nearly illegible; not signed; indorsed, "Bridgen about Thornton." ff. (2).

Printed, Lee's Life of Arthur Lee, II. 84, where the date is given 1777.

2. Jones John Paul, Capt. *July 3, 1778*. Copy of paper presented to the commissioners. Communication from the minister of marine (Sartine). Copied by Arthur Lee. f. (1).

Bondfield, John. *July 4, 1778*. Letter from Bordeaux to Arthur Lee. Admiral Byron; Keppel; treachery; supplies for America. ff. (2).

3. Chaumont, Le Ray de. *July 5, 1778*. Letter, in French, to Benjamin Franklin. Inclosure of letter (see next paper). Indorsed, No. 1. f. (1).

Letter, in French, directed to Franklin. Suegasse; accusation against Dobrée. Signed I (?); indorsed, No. 2; not dated. Marked in pencil, "5 July 78."

4. Copy of same. With indorsement by H. Ford, sec'y, *Sept. 24, 1778*. f. (1).

5. Sartine, A. R. J. G. G. de. *July 5, 1778*. Letter, in French, to the commissioners. John Paul Jones. ff. (2).

Order of confiscation. *July 6, 1778*. In French. Capt. Allen's affair; prize Britannia; Capt. Wood. f. (1). (Imperfect—worn.)

See also IV. pp. 77, 78, 145.

6. Statement, *July 7, 1778*. ["Charles de Weissenstein"]; Vergennes; Jennings. Indorsed, "Copie pour M. f. . . ."; also by Mr. Sparks, "The above is doubtless a fabrication." f. (1).

This seems on its face to be the report of the detective to the superintendent of police, sent by Vergennes to the commissioners. For particulars concerning this singular paper, see Sparks' Diplomatic correspondence, III. 45; Sparks' Franklin, VIII. 278; Adams' Life and works of John Adams, III. 178.

7. Gardoqui, Joseph & Co. *July 8, 1778*. Letter from Bilbao to Arthur Lee. Remittances; supplies for America. ff. (2).

8. [Lee, Arthur]. *July 12, 1778*. Copy of letter, in French, to Chaumont. Schweighauser; Dobrée. Certified by Lee. Indorsed, No. 3. f. (1).

9. Chaumont, Le Ray de. *July 13, 1778*. Letter, in French, to Arthur Lee. Answer to the preceding. Indorsed, No. 4. f. (1).

See also the papers on p. 3.

[Wharton, Samuel]. Note to John Thornton. Loan of twenty guineas. Not dated or signed; indorsed, No. 3. Certified to be Wharton's handwriting by M. Livingston. *July 13, 1778*. f. (1).

See also IV. p. 139.

10. Puchelberg & Co. *July 13, 1778*. Letter from L'Orient, in French, to Arthur Lee. Capt. Samuel Tucker; Schweighauser. ff. (2).

11. Lloyd, John. *July 14, 1778*. Letter from Nantes to [Arthur Lee]. Receipt of letters; departure for America; Blake. f. (1).

Emery, John. *July 14, 1778*. Letter from Bordeaux to Arthur Lee. Confiscation of prize; appeal from sentence. f. (1).

See also IV. pp. 77, 78, 145, and V. 5.

12. Sarsfield, —, *Compte de. July 14, 1778*. Letter from Rennes, in French, to Arthur Lee. Receipt of news; Washington; Keppel; Shelburne. ff. (2).

13. Livingston, M., Capt. *July 15, 1778*. Letter to Arthur Lee. Thornton; Joseph Wharton; Samuel Wharton; Bancroft; Blake. Indorsed, No. 5. ff. (2).

See also IV. p. 139, and V. 9.

Puchelberg & Co. *July 15, 1778*. Letter from L'Orient, in French, to Arthur Lee. Prizes. ff. (2).

14. France. *July 16, 1778*. Ratification of the treaty of amity and commerce. Copy, in French, signed "Louis. Par le Roi Gravier de Vergennes." f. (1).

Printed, Marten's Recueil de traités, etc. 2^e éd. II. 602.

15. Adams, John. *July, 1778*. Note to Arthur Lee. Ratifications of the treaty. Letters from Arthur Lee, William Lee, and Izard. f. (1).

16. **Emery, John.** *July 22, 1778.* Letter from San Sebastian to Arthur Lee. Confiscation of prize; Capt. Allen; Capt. Wood. ff. (2).
See also IV. pp. 77, 78, 145, and V. 5, 11.
[Lee, Arthur]. *July 22, 1778.* Draft of letter, in French, to Chaumont. [Schweighauser; Dobrée; William Lee]. Not signed; indorsed, N^o. 5. ff. (2).
See also pp. 3, 9.
- 17-19. **Franklin, Benjamin.** *July 22, 1778.* Letter to James Lovell. Deane; Capt. Young; Beaumarchais; Francy, duties on exports; objections to 11th and 12th articles of treaty; [Arthur Lee, William Lee, Izard]; expenses of commissioners; Stormont; Spain; relations between England and France; war in Germany; drafts of congress; Bingham; Dumas. Indorsed, Copy. ff. 6.
Printed, with verbal differences, Sparks' Franklin, VIII. 288; Sparks' Diplomatic correspondence, III. 5a.
20. **Gardoqui, James.** *July 23, 1778.* Letter from Madrid to Arthur Lee. Remittances. ff. (2).
Franklin, Benjamin, and Adams, John. *July 23, 1778.* Copy of letter to Henry Laurens. Ambassadors from England for peace; Vergennes. ff. (2).
Printed, Sparks' Diplomatic correspondence, I. 412.
— Note to Lee. With an indorsement by Lee, *July 24, 1778.*
Probably in reference to the preceding paper.
- 21, 22. **Montbarey, A. M. L. DE S. M., Comte and Prince de.** *July 26, 1778.* Copy of letter, in French, to Vergennes. Supplies for Virginia. With list of artillery to be furnished. ff. 3.
23. **Chaumont, Le Ray de.** *July 27, 1778.* Letter, in French, to Arthur Lee. Suspicions of William Lee. Indorsed, N. 6. f. (1).
See also pp. 3, 9, 16.
Grand, Ferdinand. *July 28, 1778.* Letter to Arthur Lee. Questions concerning accounts. ff. (2).
24. **Statement,** in Spanish, *July 28, 1778,* dated San Sebastian. Cunningham; Allen; refusal of appeal from the judgment of the court (?). Signed, "De Basecourt; Liz^{do} Arontegui." f. (1). (Imperfect — worn.)
See also, IV. pp. 77, 78, 145, and V. 5, 11, 16.
25. **Dumas, K. W. F.** *July 28, 1778.* Letter from the Hague, in French, to the commissioners. Extracts from despatches from Vienna and Ratisbon, *July 11, 16, 23;* news from Germany; 11th and 12th articles of treaty; English ambassadors for peace; Almodovar; Van Berckel. ff. (2).
26. **Sartine, A. R. J. G. G. de.** *July 29, 1778.* Letter, in French, to the commissioners. Provisions for the islands of St. Pierre and Miquelon; privateers; prizes. ff. (2).
Translation printed, Sparks' Diplomatic correspondence, I. 414.
27. **Emery, John.** *July 29, 1778.* Letter from Bilbao to Arthur Lee. Capt. Allen; request for commission. With note, added by Lee, to Franklin and Adams, *Aug. 9, 1778.* ff. (2).
Bargum, F. *July 30, 1778.* Receipt, to Arthur Lee, for 48 livres. f. (1).
- 28, 29. **Dunteguy, Garralde.** *July 31, 1778.* Letter from San Sebastian, in French, to Arthur Lee. Cunningham; Gardoqui; Emery, Allen; Count d'Aranda; Deane; privateers. ff. 4.
30. **Vergennes, C. G., Comte de.** *Aug. 3, 1778.* Note, in French, to Arthur Lee. Thanks for letters and papers. With translation by Lee. f. (1).
— Copy of the above, certified by H. Ford, sec'y. f. (1).
31. **Dumas, K. W. F.** *Aug. 4, 1778.* Letter from the Hague, in French, to the commissioners. Inclosure of letter from Van Berckel; treaty with France; favorable disposition of Holland; Orvilliers, Keppel. With extracts from despatches, and postscript. Declaration of emperor of Morocco; Welderen; reception of conciliatory bills in Pennsylvania. ff. (3).
32. **Lee, William.** *Aug. 5, 1778.* Two letters to Arthur Lee. Thomas Morris; Ross; Robert Morris; Lewis; Simeon Deane; supplies for Virginia; Lemaire; British commissioners for peace; Johnstone, Eden, Ferguson; Byron, Keppel; war in Germany; Franklin. ff. (2).
33. **Gardoqui, Joseph & Sons.** *Aug. 5, 1778.* Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2).
34. **Bargum, F.** *Aug. 8, 1778.* Receipt, to Arthur Lee, for 48 livres. f. (1).
Sartine, A. R. J. G. G. de. *Aug. 10, 1778.* Letter, in French, to Arthur Lee. Suit of Scott and Delon against Papillon and Lartois. ff. (2).
35. **Schweighauser, Jean Daniel.** *Aug. 11, 1778.* Letter from Nantes to Arthur Lee. Accusations against Dobrée; Franklin; Granville; Chaumont. ff. (2).
36. **Dobrée, Peter Frederick.** *Aug. 11, 1778.* Letter from Nantes to the commissioners. Accusations; Schweighauser; Lee; Chaumont. ff. (3).
37. **Gardoqui, Joseph & Sons.** *Aug. 12, 1778.* Letter from Bilbao to Arthur Lee. Vessels to America. ff. (2).
38. **Grubb, J.** *Aug. 13, 1778.* Letter from Nantes to Arthur Lee. Bergon; Capt. Taylor; Ford; Ross; desire for employment. ff. (2).
39. **Sartine, A. R. J. G. G. de.** *Aug. 16, 1778.* Letter, in French, to the commissioners. Prizes. ff. (2).
Translation printed, Sparks' Diplomatic correspondence, I. 418.
40. **Ross, John.** *Aug. 18, 1778.* Letter from Nantes to the commissioners. Ceronio; Thomas Morris; William Lee. ff. (2).
Lloyd, John. *Aug. 18, 1778.* Letter from Nantes to Arthur Lee. Departure for America; care of despatches. Williams; Schweighauser. ff. (2).
41. **Dobrée, P. F.** *Aug. 20, 1778.* Letter from Nantes to Arthur Lee. Chaumont's accusation; inclosure of letter to the commissioners. ff. (2).
— Copy of the same. f. (1).
42. — *Aug. 20, 1778.* Copy of letter from Nantes to the commissioners (referred to in

the preceding letter). Chaumont's accusation; request for investigation. Copy certified by H. Ford, sec'y. f. (1).

43. **Puchelberg & Co.** Aug. 26, 1778. Letter from L'Orient, in French, to Arthur Lee. Arrival of vessels; Capt. Daniel MacNeil; Moylan; prizes. ff. (2).

Emery, John. Aug. 26, 1778. Letter from Bilbao to Arthur Lee. Capt. Allen's commission as privateer; Gardoqui; departure and arrival of vessels. ff. (2).

44. **Lloyd, John.** Aug. 29, 1778. Letter from Nantes to [Arthur Lee?]. Assurances of friendship; departure for America; Stevenson. Not superscribed. ff. (2).

Bondfield, John. Aug. 29, 1778. Letter from Bordeaux to Arthur Lee. Shipments to America; Izard's goods; Duke de Mouchi; Marchioness de Lafayette. ff. (2).

45. **Gardoqui, Joseph & Co.** Aug. 29, 1778. Letter from Bilbao to Arthur Lee. Shipments to America; Capt. Barzilla Smith of North Carolina; Howe. f. (1). (Imperfect — worn.)

[**Jennings, Edmund.** Aug. or Sept. (?) 1778.] Letter to Arthur Lee. Recommendation of nephew; probable meeting of [French and English] fleets; Eden. Not dated or signed; superscription cut off; marked in pencil, "about Sept. 26, '78?" ff. (2).

Printed, Lee's Life of Arthur Lee, II. 106.

46. **Bondfield, John.** Sept. 1, 1778. Letter from Bordeaux to Arthur Lee. Shipments to America; duties. ff. (2).

Duer, William. Sept. 2, 1778. Copy of bill of exchange for £51 sterling on Chaumont in favor of Nicholas La Farque. With memorandum of payments by Chaumont appended. ff. (2).

47. **Chaumont, Le Ray de.** Sept. 5, 1778. Letter, in French, to Arthur Lee. Inclosure of note from Lessart(?); accusation against Dobrée. With answer from Lee, in French. Indorsed, No. 8. ff. (2).

48. **Boisbertrand, Gaiault de.** Sept. 7, 1778. "Memoire," in French, to the commissioners. Inducements to go to America; Dubourg; Penet; Deane; imprisonment; misfortunes; petition for relief. ff. (2). (Imperfect — stained and worn.)

49. **Cottinasses.** —. Sept. 7, 1778. Note from Paris, in French. Money loans. Not superscribed. ff. (2).

Gilbank, John, and Gale, John. Sept. 8, 1778. Letter from Paris. Cannon or Kennan, a spy; Dobrée; Mallett. Not superscribed. ff. (2).

50. **Emery, John.** Sept. 9, 1778. Letter from Bilbao to Arthur Lee. Privateers; Capt. Allen; Capt. Tuck; D'Estaing. ff. (2).

[**Dumas, K. W. F.**] Sept. 9, 1778. Letter from the Hague, in French, to the commissioners. Proceedings of the states-general; Van Zeaberg; Boschart. Not signed. ff. (2).

51. **Continental Congress, Second.** Sept. 11, 14, 1778. Copy of resolutions appointing Franklin minister plenipotentiary to France. Signed, Chas. Thomson sec.; copy attested by W. T. Franklin. f. (1).

52. **Vergennes, C. G., Comte de.** Sept. 13, 1778. Letter, in French, to the commissioners. Stevenson; Sartine. ff. (2).

53. **Bancroft, Edward.** Sept. 14, 1778. Letter to Benjamin Franklin. Request from Ellison and Samuel Wharton. ff. (2).

Camyn, —, Assistant Mayor of Calais. Sept. 15, 1778. Letter, in French, to Arthur Lee. Longchamp; Madame Necker; proffers of service. ff. (2).

54. **Gilbank, John.** Sept. 17, 1778. Letter from Nantes to Arthur Lee. Delay about departure for America; request for money. ff. (2).

Ford, Hezekiah, Rev., Secretary to Arthur Lee. Sept. 17, 1778. Review of the contracts entered into by Franklin and Deane with Montieu, Holker, and Williams, compared with that entered into by Arthur Lee with Bondfield of Bordeaux. ff. (2).

55. **Lloyd, John.** Sept. 19, 1778. Letter from Nantes to William Lee. Thanks for introduction to F. L. Lee; accusation against Dobrée and Schweighauser. ff. (2).

Lloyd, John, and Blake, Daniel. Sept. 19, 1778. Letter from Nantes. Testimony to Schweighauser's character. Not superscribed. ff. (2).

56. **Gardoqui, Joseph & Sons.** Sept. 19, 1778. Letter from Bilbao to Arthur Lee. Supplies for America; Capt. Smith; Capt. Ives; D'Estaing; Gen. Charles Lee. ff. (2).

Lloyd, John. Copy of the letters from Lloyd on p. 55. Certified by H. Ford, sec'y. ff. (2).

57. **Rosignan, Sigard, Marquis de.** Sept. 20, 1778. Letter from Turin, in French, to Arthur Lee. Acknowledgment of letter; travel. ff. (2).

Bondfield, John. Sept. 22, 1778. Letter from Bordeaux to Arthur Lee. Capt. Ayres; shipments to America; commission. ff. (2).

58. **Vergennes, C. G., Comte de.** Sept. 23, 1778. Letter, in French, to [Arthur Lee]. Holker; duties; Franklin; Adams. ff. (2).

59. **Lee, Arthur.** Sept. 25, 27, 1778. Observations on Montieu's accounts. Williams; Deane; Holker. ff. (2).

Bondfield, John. Sept. 26, 1778. Letter from Bordeaux to Arthur Lee. Remittances; Joseph Wharton. ff. (2).

- 60-64. **France.** Sept. 27, 1778. Draft of regulation concerning prizes in the ports of the United States and of France. pp. (12).

Translation printed, Sparks' Diplomatic correspondence, I. 419, etc. where the 2d and 14th articles are given in a different form; this MS. is probably the draft sent by Sartine to the commissioners, Aug. 16, 1778 (see p. 39), and differs considerably in wording from that finally adopted, which is printed in Martens' Recueil de traités, etc. III. 123, etc.

65. **Grand, Hy.** Sept. 27, 1778. Letter to [Arthur Lee]. Accounts. f. (1).

66. **Gardoqui, Joseph & Sons.** Sept. 30, 1778. Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2).

67. [**Norton, George F.**] Oct. 2, 1778. Letter from Dover to William Lee. Intelligence of British vessels. Signed, G. F. N. ff. (2).

68. [Mason, George]. *Oct. 2, 1778*. Copy (?) of letter from Gunston Hall, Virginia, to [Col. George Mercer], in England. Digges; family affairs; declaration of rights; independence. pp. 4. (Imperfect — last part gone.)
Printed, except the portion on family affairs, Virginia historical register, II. 1, p. 28.
- Vergennes, C. G., *Comte de*. *Oct. 5, 1778*. Letter, in French, to Arthur Lee. News from America; D'Estaing. With translation. ff. (2).
69. *Continental Congress, Second*. *Oct. 6, 1778*. Copy of resolution inviting Dr. Price to America. Signed, Cha^s. Thomson, sec'y. f. (1).
Printed, Secret journals of congress, II. 101.
- Gardoqui, Joseph & Sons. *Oct. 7, 1778*. Letter from Bilbao to Arthur Lee. Supplies for America; Emery's privateers. ff. (2).
70. —. *Oct. 7, 1778*. Letter from Bilbao to Arthur Lee. Supplies for America; D'Estaing; Byron. ff. (2).
71. Bartine, A. R. J. G. G. *de*. *Oct. 7, 1778*. Letter, in French, to the commissioners. Izard's effects; Martinelli; Niccoli. ff. (2). (Imperfect — edges worn.)
See IV. 66; printed, Sparks' Diplomatic correspondence, I. 467.
72. Mason, George. *Oct. 8, 1778*. Copy of letter from Gunston Hall, Virginia, to William Lee. Investment of money in Europe; remonstrance. With copy of another letter on same subject, *March, 4, 1779*, and copy of answer from Lee, *Sept. 25, 1779*. Defense and explanation. ff. (2).
73. Gardoqui, Joseph & Sons. *Oct. 10, 1778*. Letter from Bilbao to Arthur Lee. Arrival of vessels; news from America; D'Estaing; Sullivan; Howe. ff. (2).
74. Cathalarok, Estienne. *Oct. 12, 1778*. Letter from Marseilles to Arthur Lee. Supplies of medicine for America; Schweighauser; Izard's effects. ff. (2).
- Comyn, M. *Oct. 14, 1778*. Letter from Marseilles to Arthur Lee. Desire for appointment as commercial agent. ff. (2). (Imperfect — torn.)
75. [Lee, William]. *Oct. 15, 1778*. Letter from Frankfort a/M. to R. H. Lee. Treaty with Holland; estate in Virginia; private commercial arrangements; appointment of consuls in France; Edward Browne; change of commissioners; [Carmichael, Deane]; Johnstone; D'Estaing. Signed, W. L. pp. 7.
76. Vergennes, C. G., *Comte de*. *Oct. 17, 1778*. Copy of letter, in French, to Arthur Lee. Spain. Copy attested by H. Ford, sec'y. f. (1).
Printed, Sparks' Diplomatic correspondence, II. 195.
- *Oct. 19, 1778*. Copy of letter, in French, to Arthur Lee. Thanks for American news; D'Estaing. Copy attested by H. Ford, sec'y. f. (1).
77. *Continental Congress, Second*. *Oct. 22, 1778*. Copy of resolution recommending harmony between commissioners. Signed, Cha^s. Thomson, sec'y; copy attested by W. T. Franklin. f. (1).
Printed, Secret journals of congress, I. 123.
- Vergennes, C. G., *Comte de*. *Oct. 24, 1778*. Letter, in French, to Arthur Lee. D'Estaing's movements; Byron; Parker; Howe. With translation. ff. (2).
Translation printed, Sparks' Diplomatic correspondence, II. 199.
78. *Amsterdam — Merchants*. *Oct. 24, 1778*. Address, in French, to the Prince of Orange. British insults to Dutch commerce. Translated from the Dutch by Dumas, with a note added. ff. (2).
- Sarsfield, —, *Comte de*. *Oct. 24, 1778*. Note, in French, to Arthur Lee. Apology; Franklin. ff. (2).
79. Gerard, Mad. Deverly, wife of C. A. Gerard. *Oct. 26, 1778*. Copy of letter, in French, to the commissioners. Request for favor. With copy of letter, *Nov. 1, 1778*, from commissioners to Schweighauser concerning the same. Indorsed, N^o 4. f. (1).
80. Gardoqui Joseph & Sons. *Oct. 28, 1778*. Letter from Bilbao to Arthur Lee. Supplies for America. ff. (2). (Imperfect — torn.)
- Lloyd, John. *Oct. 29, 1778*. Letter from Nantes to Arthur Lee. Blake; accusation against Schweighauser; "La Belle Poule." ff. (2).
81. Sarsfield, —, *Comte de*. *Nov. 1, 1778*. Letter, in French, to Arthur Lee. Mrs. Gibbs; Prince de Condé's "pavillon." ff. (2).
- [Nov. 4, 1778]. Letter, in French, to the same. Same subject. ff. (2).
- [Rulla, George. *Nov., 1778*]. Letter addressed, "My Lords." Condition and treatment of American prisoners in [Mill Prison, Plymouth]. Not signed, dated, or superscribed. ff. (2).
82. —. [Nov. 8 (?), 1778]. Letter to Arthur Lee. Treatment of prisoners. ff. (2).
- Kirk, Arthur. *Nov. 7, 1778*. Testimony confirming Rulla's statements; treatment while prisoner in Mill Prison. f. (1).
83. *Statement*, [Nov., 1778?]. Capture of Eliphallet Downer, William Burt, and Seth Clarke. f. (1).
- Lee, Arthur. *Nov. 12, 1778*. Draft of letter to K. W. F. Dumas. Loan from Holland. ff. (2).
84. [Sarsfield, —, *Comte de*]. *Nov. 15, [1778]*. Letter, in French, to [Arthur Lee]. Mrs. Gibbs; Franklin; Bergasson. Not signed or superscribed. ff. (2).
- [—]. *Nov. 15, [1778]*. Letter, in French, to the same. Same subjects. Not signed. ff. (2).
85. Dumas, K. W. F. *Nov. 24, 1778*. Letter from the Hague, in French, to Arthur Lee. Receipt of Lee's letter of the 12th; probable result. ff. (2).
86. Adams, John. *Nov. 28, 1778*. Letter to Arthur Lee. Recommendation of Lieut. Brown of the Boston. f. (1).
- *Nov. 29, 1778*. Letter to Arthur Lee. Recommendation of a Lieut. Adams. ff. (2).
87. Sarsfield, —, *Comte de*. [Nov.] 28, [1778]. Note, in French, to Arthur Lee. Invitation to dinner; illness of Mrs. Izard; prince de Condé. With seal. ff. (2).
This is dated only, Samedi 28, and the month and year are suppositions from its connection with S.'s note on next page.
88. Craig, —, and Readhead, —. Note to Arthur Lee. Thanks for passes; Digges. Not dated; marked, in pencil, "about 29 Nov. 78." ff. (2).

- Sarsfield**, —, *Comte de*. Nov. 29, [1778]. Note, in French, to Arthur Lee. Prince de Condé. ff. (2).
89. **Johnson**, —, and **Hobson**, —. Note of thanks to Arthur Lee. Not dated; indorsed, in pencil, "about 29 Nov. '78." f. (1).
- Gardoqui**, James. Nov. 30, 1778. Letter from Madrid to Arthur Lee. Illness; change of residence. ff. (2).
90. **Norton**, George F. Dec. 3, 1778. Letter from London to Arthur Lee. Recommendation of Henry Farley. ff. (2). (Imperfect—torn.)
91. **Gibbes**, Mrs., and **Stevens**, Miss. Note to Arthur Lee. Acceptance of invitation. Not dated; marked in pencil, "about 3 Dec. '78?"
- [**Sarsfield**, —, *Comte de*. Dec. 5 (?), 1778.] Note, in French, to Arthur Lee. Mrs. Gibbes; Prince de Condé's "pavillon"; Mrs. Izard. ff. (2).
92. Extract from letter, Dec. 7, 1778. Adams; Lee; Dobrée; Schweighauser; Franklin. In French, with English indorsements, to the effect that Carmichael believed it was written by Holker and quoted by G[ouverneur?] Morris, May 3, 1779, in a letter to congress. Signed, J. L. [James Lovell?]. f. (1).
93. **Sarsfield**, —, *Comte de*. Dec. 7, 1778. Note, in English and French, to Arthur Lee. Acceptance of invitation. ff. (2).
- , Dec. 13, 1778. Note, in French, to Arthur Lee. La Rochefoucauld. ff. (2).
94. [Lee, William]. Dec. 13, 1778. Letter to [his brother?] in Virginia. Congress manifesto; expedition to Charleston; Clinton; Washington; D'Estaing; Penet; supplies for Virginia. f. (1). (Imperfect—torn.)
95. **Louis XVI.**, King of France. Dec. 19, 1778. Copy of announcement to congress of the birth of a princess. f. (1).
96. **Bondfield**, John. Dec. 19, 1778. Letter from Bordeaux to Arthur Lee. Arrival of vessels from America; Gridley; Nairac; Byron; D'Estaing; Montieu, Beaumarchais, [Williams]. ff. (2).
- Vergennes**, C. G., *Comte de*. Dec. 23, 1778. Note, in French, to Arthur Lee. Thanks for pamphlet. f. (1).
97. **Gardoqui**, James. Dec. 23, 1778. Letter from Bilbao to Arthur Lee. Health; news from America; privateers. ff. (2).
98. **Gardoqui**, Joseph & Sons. Dec. 23, 1778. Letter from Bilbao to Arthur Lee. Supplies for America; privateers. ff. (2). (Imperfect—torn.)
99. [Deane, Silas. Dec. 1778.] Copy of charges against Arthur Lee. ff. (2).
100. **Sarsfield**, —, *Comte de*. Dec. 24, 1778. Note, in French, to Arthur Lee. Ossun; Mrs. Izard. ff. (2).
101. [Berkenhout, —, Dr.]. Dec. 25, 1778. Letter to [Arthur Lee]. Proposal for peace negotiations, in form of a dream. Signed, Semper Eodem; superscribed, "Monsr. Johnstone"; indorsed, "Berkenhout," also, "Received at Chaillot the 2^d day Jan^y 1779. Attest H. Ford, sec'y." ff. (2).
102. **Dumas**, K. W. F. Dec. 18–28, 1778. Letter from the Hague, in French, to the commissioners. Action of the states-general on English complaints and French memoir; Amsterdam; Count Welderen. With copy of letter to Dumas signed, Oldenbarnevelt, dated, Dec. 4, 1778, and copy of reply; capture of Dutch vessel by American privateers. ff. (2). (Imperfect—torn and stained.)
103. **Sarsfield**, —, *Comte de*. Dec. 29, 1778. Letter to Arthur Lee. Ossun. ff. (2).
- Franklin**, Benjamin. Suggestion concerning prizes. Indorsed, in pencil, "B. Franklin's hand writing." ff. (2).
104. **La Rochelle**, France—*Merchants*. Copy of a letter, in French, to Sartine. Convoys for merchant ships. Marked in pencil, "Dec. '78?" ff. (2).
105. **Benoit**, —, *Mlle*. Love letter, in French, to Arthur Lee. With translation. Not dated. ff. (2).
- Adanson**, —, *Mad*. Note, in French, to Arthur Lee. Verses. With translation. Not dated; marked in pencil, Dec. '78. ff. (2).
56. [**Sarsfield**, —, *Comte de*]. March 1, [1778]. Note in English to Arthur Lee. Appointment of an interview with Ossun. ff. (2).
- This paper belongs on p. 56 of Vol. IV., and was inadvertently omitted from its proper place in the Calendar.

VOL. VI.

1. **Bondfield**, John. Jan. 1, 1779. Letter from Bordeaux to Arthur Lee. Want of news; reimbursement for money advanced to navy officers. ff. (2).
2. [**Franklin**, Benjamin. Jan. 2, 1779.] Note to [the other commissioners]. Montieu's accounts. With Arthur Lee's reply dated Jan. 2. Montieu, Williams. f. (1).
3. **Grand**, Ferdinand, the banker. Jan. 2, 1779. Receipt to Arthur Lee for 22725 livres. f. (1).
- Vergennes**, Charles Gravier, *Comte de*. Jan. 4, 1779. Letter, in French, to Arthur Lee. Berkenhout; acknowledgment of independence a necessary preliminary to treating. f. (1).
- Translation printed, Sparks' Diplomatic correspondence, II. 214.
- [**Sarsfield**, —, *Comte de*]. Jan. 6, 1779. Letter, in French, to [Arthur Lee]. Prince de Tingry (?); ceremonial visits; Ossun. ff. (2).
4. **Henry**, Patrick. Jan. 9, 1779. Extract from a letter to the delegates of Virginia in congress. Hezekiah Ford. f. (1).
5. **Mannberger**, —, sword-cutter. Jan. 10, 1779. Letter from Strasburg, in French, to [Arthur Lee]. Supplies to Virginia. ff. (2).
6. **Chaumont**, Le Ray de. Jan. 12, 1779. Copy of two promissory notes, in French, to Franklin, for 50,000 livres, each dated Jan. 1. With note added by H. Ford, sec'y. Reasons for copying the notes; Williams' accounts. ff. (2).
- Bondfield**, John. Jan. 12, 1779. Letter from Bordeaux to Arthur Lee. Ships from Nantes; discord in America; Washington; vessels from Philadelphia; Deane. ff. (2).
7. **Gardoqui**, Joseph & Sons. Jan. 16, 1779. Letter from Bilbao to Arthur Lee. Departure of brig North Star, Capt. Francis Fawson; drafts on commissioners. ff. (2).

8. **Chaumont, Le Ray de.** *Jan. 18, 1779.* Note, in French, to M. Siot (?) at Passy. Letter of exchange from Mad. La Fargue (?); Baueroff. ff. (2).
- Ross, John.** *Jan. 19, 1779.* Letter from Nantes to Arthur Lee. Thomas Morris's papers; William Lee. ff. (2).
9. **Lloyd, John.** *Jan. 19, 1779.* Letter from Nantes to Arthur Lee. Duties in French ports. ff. (2).
- Schweighauser, Jean Daniel.** *Jan. 19, 1779.* Letter from Nantes, in French, to [Arthur Lee?]. Capt. Meredith; Capt. Niles; Goffingham; Da Costa and co. ff. (2).
10. **Vergennes, C. G., Comte de.** *Jan. 21, 1779.* Letter, in French, to Arthur Lee. Thanks for information. With translation by Arthur Lee, and copy of note from Lee to Vergennes, *Jan. 20, 1779.* Departure of provision fleet and escorts for British army in America. ff. (2).
- Lloyd, John.** *Jan. 23, 1779.* Letter from Nantes to Arthur Lee. Reply to letters. Da Costa. ff. (2).
11. **Franklin, Benjamin.** *Jan. 24, 1779.* Letter to Arthur Lee. Monthieu's accounts; Grand; Deane. With copy of Lee's reply. ff. (2).
- Grand, Ferdinand.** *Jan. 29, 1779.* Receipt, in French, to Arthur Lee for 80800 livres. ff. (2).
12. **Gardoqui, James.** *Jan. 30, 1779.* Letter from Bilbao to Arthur Lee. Draft on Grand for Ross; remittances; re-imbursements; D'Estaing's fleet; fleets at Cadiz and Ferrol. ff. (2).
- Ross, John.** *Feb. 2, 1779.* Note from Nantes to Arthur Lee. Request to have a letter forwarded to William Lee. ff. (2).
13. [**Sarsfield, —, Comte de.**] *Feb. 4, 1779.* Note, in French, to Arthur Lee. Compliments; note to Franklin. ff. (2).
- Gilbank, John.** *Feb. 7, 1779.* Letter from Nantes to [Arthur Lee?]. Request for loan of 1000 livres. ff. (2).
14. **Adams, John.** *Feb. 7, 1779.* Letter to Arthur Lee. Request for a copy of the commissioners' letter to Vergennes. With an indorsement by Ford, *March 20, 1779*, stating that it was delivered to him by W. T. Franklin in the presence of Henry Grand. ff. (2).
- Bancroft, Edward.** *Feb. 9, 1779.* Letter from Chaillot to Arthur Lee. Lee's personal enmity; release of American prisoners. ff. (2).
15. **Commissioners to France.** *Feb. 10, 1779.* Copy of letter to J. D. Schweighauser. Capt. Jones; countess of Selkirk's plate. ff. (2). (Margins torn.)
- Printed, but without Lee's signature, Sparks' Diplomatic correspondence, I. 513.
16. **Adams, John.** *Feb. 11, 1779.* Letter to Count Vergennes. Deane's address; vindication of Arthur Lee's character; F. L. Lee, R. H. Lee. ff. (2).
- Printed Sparks' Diplomatic correspondence, II. 224; Adams' Works, VII. 79; and with verbal differences in Lee's Life of Arthur Lee, I. 157.
17. **Lee, Richard Henry.** *Feb. 11, 1779.* Letter from Freestonepoint, Va. to [Arthur Lee]. Deane's address; letter by Lafayette; Berkenhout; William Lee; F. L. Lee; Paine's defense of the Lees; D'Estaing; Byron. ff. (2). (Margins worn.)
- Many of the names and expressions are in cipher.
18. **Bondfield, John.** *Feb. 16, 1779.* Letter from Bordeaux to Arthur Lee. Commercial intelligence; Robert Morris; Samuel Ingles; Ross; Holker and co.; Deane; D'Estaing. ff. (2). (Imperfect — torn.)
- Sarsfield, —, Comte de.** *Feb. 16, [1779].* Note, in French, to Arthur Lee. "Defense of Common Sense"; Izard; Rochefoucauld. With seal. ff. (2).
19. —. *Feb. 17, [1779].* Letter to [Ralph Izard?]. "Common Sense"; Rochefoucauld; [Arthur] Lee. ff. (2).
- Vergennes, C. G., Comte de.** *Feb. 16, 1779.* Copy of letter, in French, to Arthur Lee. Inclosure of letter from Montbarey; payment for supplies to Virginia. With copy of Prince de Montbarey's letter. Indorsed, "True copy" by A. Gillon. With translation of each by Lee. ff. (2).
- Translation of both printed, Lee's Life of Arthur Lee, I. 420.
20. **Franklin, Benjamin.** *Feb. 18, 1779.* Note to Arthur Lee. Request for public papers. Indorsed by Lee as delivered to him by W. T. Franklin in the presence of John Adams. ff. (2).
- Printed, Sparks' Diplomatic correspondence, II. 230.
- . *Feb. 18, 1779.* Note to Arthur Lee. Resolutions of congress of Sept. 11, Sept. 14, and Oct. 22, 1778. ff. (2).
- Printed, Sparks' Diplomatic correspondence, II. 229.
21. **Sarsfield, —, Comte de.** List of the Spanish ministry, addressed to Arthur Lee. Count Florida Blanca; Count de Bida; Miguel de Muzguiz; Castijon; Joseph Galvez; Manuel de Roda y Arrieta. Marked in pencil, "20 Feb. 79?" ff. (2).
22. —. *Feb. 20, 1779.* Note, in French, to Arthur Lee. Invitation to Duchess d'Enville's. f. (1).
- Livingston, M., Capt.** *Feb. 20, 1779.* Copy of certificate, dated April 11, 1778, to Arthur Lee and Ralph Izard. Knowledge of the treaty in England; Bancroft; Wharton; stock-jobbing. With indorsements by Livingston, Feb. 20, 1779. — Duplicate of the same. ff. (2).
23. **Gardoqui, Joseph & Sons.** *Feb. 20, 1779.* Letter from Bilbao to Arthur Lee. Supplies to America; Capts. Allen, Babson, Trash. f. (1).
24. **Lloyd, John.** *Feb. 23, 1779.* Letter from Nantes to Arthur Lee. Departure with Blake; Schweighauser. ff. (2).
- Gardoqui, Joseph & Sons.** *Feb. 24, 1779.* Letter from Bilbao to Arthur Lee. Supplies to America; Capts. Babson, Trash, Emery. ff. (2).
25. **Sarsfield, —, Comte de.** [*Feb. 24, 1779?*] Note, in French, to Arthur Lee. Request for news. Dated, "Jeudi 24 fev." ff. (2).
- Thursday was the 24th of February during this epoch only in 1774 and 1780. The days of the week in Sarsfield's notes are evidently erroneous, but the years are probably 1778 or 1779; it is impossible to determine which without further data. Many of them, as this, are indorsed in a recent hand in pencil, "1778?"
- 26, 27. [**Lee, William.**] *Feb. 25, 1779.* Copy of letter from Frankfort on the Main to R. H. Lee. Deane's charges; Schweighauser; Do-brée; Baron Breteuil; agent at St. Petersburg, Copenhagen, Stockholm; Prussian mission. With part of another letter to the same, dated Paris, *March 25, 1779.* Samuel Adams; Deane's charges; Williams; Thos. Morris;

- Limozin, Schweighauser; Bondfield; Franklin; Lloyd; Ross. pp. 8. (Imperfect — last part gone.)
28. **Bondfield, John.** *Feb. 26, 1779.* Letter from Bordeaux to Arthur Lee. Attack on S. Lucie; difficulties of merchant ships. ff. (2).
29. [**Berkenhout, —, Dr.** *Feb. 28, 1779.*] Letter addressed to "Monst. Lotson." Author of "Montcalm's Letters." British irresolution. ff. (2).
- This was probably written to Arthur Lee. The allusions to political events are so guarded that the meaning is not at all clear.
30. —. *Feb. 28, 1779.* Letter addressed to "Monst. Johnstone" [Arthur Lee]. Franklin; negotiation for peace. With copy of answer and indorsement by Lee of same date. Jennings; Bancroft. With indorsement by Ford. ff. (2).
- Roisin, Sigard, Marq. de.** *Feb. 28, 1779.* Letter from Casal, in French, to Arthur Lee. Loss of letters; desire for news. Indorsed, "No 3." ff. (2).
- Translation printed, *Lee's Life of Arthur Lee*, II. 366.
31. **Bondfield, John.** *March 6, 1779.* Letter from Bordeaux to Arthur Lee. Deane's charges; commissioners; Franklin; Lafayette; Washington. ff. (2).
- Grave (?), —.** *March 6, 1779.* Note, in French, to Arthur Lee. News from fleets; D'Estaing; Byron; De Grasse. f. (1).
32. [**Jones, John Paul?** *March 10, 1779.*] Copy of letter apparently in reference to the subjects mentioned in Livingston's letter on p. 33. Publication of news. Not addressed; indorsed as true copy by T. Smith. f. (1).
- Bondfield, John.** *March 12, 1779.* Letter from Bordeaux to Arthur Lee. Supplies for Virginia; D'Acosta; Haywood; Montieu; Beaumarchais; Gillon. ff. (2).
33. **Livingston, M., Capt.** *March 13, 1779.* Copy of letter from Nantes to John Paul Jones. Bancroft; Wharton. — Copy of Capt. Jones' reply. Each is indorsed by Livingston as a true copy. f. (1).
- In the same hand as the first paper on p. 32.
- Franklin, Benjamin.** *March 13, 1779.* Letter to Arthur Lee. Williams' accounts; Schweighauser. ff. (2).
34. **Livingston, M., Capt.** *March 15, 1779.* Letter from Nantes to Arthur Lee. Bancroft. ff. (2).
35. **Lee, Arthur.** *March 17, 1779.* Note in French, on Grand, the banker, for 25000 livres in favor of Joseph Gardoqui & Sons. f. (1).
- Bondfield, John.** *March 18, 1779.* Letter from Bordeaux to Arthur Lee. Commercial business; Wm. Lee; Deane's charges. ff. (2).
36. **Grand, Ferdinand.** *March 20, 1779.* Note, in French, to Arthur Lee. Acceptance of his note for 25000 livres (see above, p. 35). f. (1).
- Vergennes, C. G., Comte de.** *March 20, 1779.* Copy of letter, in French, to Arthur Lee. Payment by Virginia for supplies; inclosure of letter from Prince de Montbarey. With copy of Prince de Montbarey's letter dated March 16, relating thereto, and a translation of each by Arthur Lee. Indorsed as "True copy" by A. Gillon. ff. (2).
- See also before, p. 19. — Translation of both printed, *Lee's Life of Arthur Lee*, I. 420, 421.
37. **Letter, March 21, 1779,** in cipher, from Philadelphia. Indorsed, "Received from the marchioness of Fayette July 8, 1779." ff. (2).
- Lee, Arthur.** *March 22, 1779.* Copy of letter to Count Vergennes. Recall of munitions promised to Virginia; remonstrance. Indorsed, "Letter Book N. 6. p. 4th True copy compar'd A. Gillon." ff. (2).
- See also pp. 19, 36. — Printed, *Lee's Life of Arthur Lee*, I. 421.
38. **Sarsfield, —, Comte de.** *March 25, [1779?].* Note to Arthur Lee. Invitation to dinner. ff. (2).
- Montbarey, Alexandre Marie Léonor DE SAINT-MAURIS, Prince and Comte de, Minister of War.** *March 26, 1779.* Copy of note, in French, to Count Vergennes. Supplies for Virginia; Arthur Lee. With translation. Indorsed, "No. 5." ff. (2). (Imperfect — torn.)
- See also pp. 19, 36, 37. — Translation printed, *Lee's Life of Arthur Lee*, I. 423, where the date is given as May.
39. **Lee, William.** *March 26, 1779.* Letter from Paris to F. L. Lee. Private pecuniary troubles; importance of unanimity in America; British plans; Franklin; Silas Deane, Carmichael; Lord Bute; "Hortalez & co." pp. 4.
- Schweighauser, J. D.** *March 27, 1779.* Letter from Nantes, in French, to [Arthur Lee?]. Shipment of goods for America; Williams' accounts; Franklin. ff. (2).
40. **Vergennes, C. G., Comte de.** *March 27, 1779.* Letter, in French, to Arthur Lee. Supplies for Virginia; Montbarey's letter. With translation. Indorsed, "No 4." ff. (2).
- See also pp. 19, 36-38. — Translation printed, *Lee's Life of Arthur Lee*, I. 423, where the date is given May 21.
- Copy of this and of that on p. 37, with the dates, "mai." Also with translation. Certified by A. Gillon. ff. (2).
41. **Gerard, Conrad Alexandre.** *March 31, 1779.* Copy of letter from Philadelphia to Congress. Departure to France; power of ministers. Translated by Gouverneur Morris. Indorsed, "Original upon the files of congress." f. (1). (Imperfect — torn.)
- Printed, Sparks' Diplomatic correspondence, X. 275.
42. **Livingston, M., Capt.** *April 1, 1779.* Letter from Nantes to Arthur Lee. Bancroft; Ross. ff. (2).
- Lloyd, John.** *April 3, 1779.* Copy of letter from "On board the Belle Poule, Brest Road," to Livingston. Certificate from Champion; Izard; arrival of ships; convoy under La Motte-Picquet. Indorsed as true copy by Livingston; also, N. 2. f. (1).
- Note,** in cipher, *April 4, 1779.* f. (1).
43. **Ross, John.** *April 6, 1779.* Note to Arthur Lee. Inquiry for a letter sent to William Lee. ff. (2).
- Note to Arthur Lee. Declination of invitation to dinner. Marked, "About 6 April 79"; dated, Sunday Evening. ff. (2).
44. **Penn, John, Hill, Whitmell, and Burke, Thomas.** *April 8, 1779.* Copy of letter from Philadelphia, to Henry Laurens. Remonstrance; votes of South Carolina delegates on the fishery claim. Indorsed by Henry Laurens, "Not examined but I believe there is no error." ff. (2).

45. **Newman, Henry.** *April 9, 1779.* Letter from Philadelphia to William Carmichael. Carmichael's opinion of Deane and Lee; Lloyd, Stevenson, Thornton. Indorsed, "Inclosed in Mr. Carmichael's information delivered May 3, 1779." ff. (2).
- Sarsfield, —, Comte de.** [*April*] 11, [1779]. Note to Arthur Lee. ff. (2).
- This is dated only, "Sunday 11th" and if written this year, as is probable from its being in English, might have been in April or July.
- Lloyd, John.** *April 15, 1779.* Letter, dated "On board the Belle Poule, Brest Road," to Arthur Lee. Care of letters; Deane, Bancroft; Izard. ff. (2).
46. **Necker, Jacques.** *April 15, 1779.* Copy of letter, in French, from Paris, to Arthur Lee. Supplies for Virginia; refusal to exempt from duties. With translation by Lee. ff. (2).
- Translation printed, *Lee's Life of Arthur Lee*, I. 423.
47. **Lee, Arthur.** *April 15, 1779.* Copy of letter to M. Necker. Exemption from duty of supplies to Virginia; necessity for the request. With copy of Necker's reply in French, dated *April 16.* Request granted. Indorsed as true copy by A. Gillon, also, No. 4. With translation by Lee. ff. (2).
- Lee's and translation of Necker's printed, *Lee's Life of Arthur Lee*, I. 424, 425.
48. [**Lee, Francis Lightfoot.**] *April 22, 1779.* Letter from Annapolis to [Arthur Lee]. Deane; William Lee. f. (1).
- Letter,** *April 22, 1779,* from London, to Hezekiah Ford. Slander of a mutual friend; family plans. Unsigned. ff. (2).
49. **Moustier, Eléonore François Élie, Comte and Marquis de.** *April 23, 1779.* Letter from Colblentz to [Arthur Lee?]. Ministers plenipotentiary; Franklin; [Deane, Adams]; sympathy and encouragement for America; D'Estaing; future of American states; Greece; Cromwell; character of rulers. ff. (4).
- Printed, *Lee's Life of Arthur Lee*, II. 372.
- Ford, Hezekiah.** *April 23, 1779.* Receipt to Arthur Lee for 696 livres, 6sols, tournois. With another receipt for 1200 livres. f. (1). (Imperfect — torn.)
50. **Franklin, Benjamin.** *April 24, 1779.* Two copies of letters to Capt. Landais. Exchange of prisoners; cruise of the Alliance; orders for sailing; Schweighauser; Adams. ff. (2). (One copy imperfect — torn.)
51. **Moustier, E. F. E., Comte and Marquis de.** [*April*?] 25, [1779?]. Note, in French, to Arthur Lee. Visit of American ladies to the royal houses; offer of service. Marked in pencil in later hand, "25 April, '79"; dated only, "25." ff. (2).
52. **Lee, Richard Henry.** *April 26, 1779.* Letter from Philadelphia to F. L. Lee. Death of Col. Taylor; success of fleet from Boston; recall of Dr. Franklin; foreign policy; treatment of Arthur Lee; Virginia; British movements. ff. (2).
53. **Franklin, Benjamin.** *April 28, July 28, Oct. 15, 1779.* Copy of notes to Capt. Landais. Orders for cruise under Capt. Jones; Chaumont; charges of disobedience; orders to report at Paris; prizes. With copy of Capt. Landais's answer. Necessary delay; illness of Capt. Cottineau; need of money. With copy also of Dr. Franklin's orders to Capt. Jones, *June 30, 1779.* All certified by Ludwell Lee. ff. (2). (Imperfect — torn.)
54. [**Lovell, James**?] *April 29, 1779.* Copy of letter from Philadelphia to Benjamin Franklin. Deane; Lee; deliberations of congress. Signed, J. L. f. (1).
55. **Paca, William, and Drayton, William Henry.** *April 30, 1779.* Copy of memorial to Congress. Arthur Lee's unpopularity and unfitness for position of minister at Madrid. ff. (2).
56. **Lamouignon de Malesherbes, Chrétien Guillaume de.** *April 30, 1779.* Note, in French to Arthur Lee. Invitation to dinner. f. (1).
- Nicholson, Samuel, Capt.** *May 2, 1779.* Copy of letter from Philadelphia to William Carmichael. Opinion of Lee, Deane, Franklin; Stevenson; Capt. Hill; Thornton; Lloyd; Ross. Indorsed, "Inclosed in Mr. Carmichael's information delivered in May 3, 1779." ff. (2).
57. —. Copy of the same. Indorsed, No. 4. f. (1).
- 58, 59. **Lee, Arthur.** *May 2, 1779.* Copy of letter to Benjamin Franklin. Request for convoy to protect Virginia supplies. Copy of answer, dated May 3, giving reason for refusal, and copy of Lee's reply, dated May 6. Repetition of request; Adams; La Motte-Picquet; Sartine; Izard. Indorsed as true copies by A. Gillon. With note added by Ludwell Lee. ff. (3).
- Printed, *Lee's Life of Arthur Lee*, I. 426, 427.
- 60, 61. **Carmichael, William.** *May 3, 1779.* Copy of letter to congress. Charges against Arthur Lee; Grand brothers; Garnier; Shelburne; D'Estaing; Col. Nicholas Rogers; Lauregais; Vergennes; Gerard; Lafayette; D'Aranda; Bancroft; Sayce; Lord Camden; Franklin; Izard; Berkenhout; Ridley; Chaumont; Beaumarchais; Holker; Moylan; Ross; Williams; Jones; Nicholson; Thornton. ff. (4).
62. —. Another copy of a portion of the same. ff. (2).
63. **Bondfield, John.** *May 8, 1779.* Letter from Bordeaux to Arthur Lee. Arrival of the Mercer, Capt. Robinson; R. H. Lee; La Motte-Picquet: news from the fleet with Virginia supplies; capture of the *Legère* with supplies of clothing for America; duel between Henry Laurens and John Penn; Deane; Izard. ff. (2).
64. **Sarsfield, —, Comte de.** *May 8, [1779].* Note, in English and French, to Arthur Lee. Appointment with Malesherbes. ff. (2).
- . *May 15, [1779].* Note to Arthur Lee. Abbé Nolin; treaty at Teschen. ff. (2).
- Lee, William.** *May 20, 1779.* Letter from Frankfort, Germany, to [F. L. Lee]. Intended resignation of R. H. Lee; personal sacrifices; plans of Holland, Russia, Germany. ff. (2).
65. **Bondfield, John.** *May 22, 1779.* Letter from Bordeaux to Arthur Lee. Arrival of sloop from Maryland; Capt. Robinson; Virginia's indebtedness; Beaumarchais; William Lee. ff. (2).
- [**Lee, Arthur.**] *May 22, 1779.* Portion of letter from Paris to Carter Braxton. Aspersions on the Lees; letter to Ross. ff. (2). (Imperfect — latter part gone.)

66. [Lee, Richard Henry]. *May 23, 1779*. Letter in cipher to [Arthur Lee?]. Deane's attack on the Lees. ff. (2).
67. **Sarsfield**, —, *Comte de*. [May] 24, [1779]. Note to Arthur Lee. Spain's declaration. ff. (2).
 —. Note in English to Arthur Lee. "Spain ready to declare"; visit to the gun-makers. Dated, "friday morning." ff. (2).
 —. *May 25, [1779]*. Note to Arthur Lee. Abbé Nolin; appointment at Luzerne's; Ossun. ff. (2).
68. **Franklin**, Benjamin. *May 26, 31, Oct. 4, 17, 28, March 4, 1779*. Extracts from letters to Congress. Jones's command; the Alliance; Necker; borrowing money in Holland; assertion by the Howes, Cornwallis, Grey, Col. Montresor, and Capt. Hammond that conquest of America is impracticable; Deane and Lee; Neufville and co.; Arthur Lee's application for money; Montieu; Beaumarchais; supplies; quarrel of Jones and Landais. Indorsed, No. 2. ff. (2).
 The letters of May 26, Oct. 4 and 17, are printed in full in Sparks' Diplomatic correspondence, III. and that of May 26, also in Sparks' Franklin, VIII.
- Gillon**, —, *Commodore*. Note to [Arthur] Lee. Appointment; Capts. Joiner, Robeson, Kalteier, Spencer. Dated, "Sunday Evening." ff. (2).
69. **Jennings**, Edmund. *May 28, 1779*. Receipt to Arthur Lee for £66s., for Edward Bridgen. f. (1).
- Sarsfield**, —, *Comte de*. *May 30, 1779*. Note to Arthur Lee. Spain's declaration. ff. (2).
70. **Gillon**, A. Letter to Arthur Lee. Thanks for attention; Capt. Joiner, Luzerne. Dated "Wednesday 10 o'clock." ff. (2).
- Lee**, Arthur. *June 6, 1779*. Copy of letter to Count Florida Blanca. Inclosure of memorial to Spain. With copy of note in French to Count D'Aranda, dated *June 7, 1779*, and copy of the memorial, dated *June 27, 1779*. ff. (2). (Imperfect — latter part gone.)
 See also IV. 128. — Printed, with translation of note to D'Aranda, Sparks' Diplomatic correspondence, II. 246, 247; Lee's Life of Arthur Lee, I. 277; memorial printed in Sparks' Diplomatic correspondence, II. 252; and with date of *June 6*, in Lee's Life of Arthur Lee, I. 277.
71. **Adams**, John. *June 9, 1779*. Copy of letter from L'Orient to Arthur Lee. Receipt of letters; Luzerne; Ford; Paine; declaration of northern powers against England; accusations against Lee; correspondence with Vergennes; Lafayette; situation in America. f. (1).
 Printed Lee's Life of Arthur Lee, I. 159.
- Austin**, Jonathan Loring. *June 10, 1779*. Letter from Boston to Arthur Lee. Arrival in America; introduction to Lee's brother at Philadelphia; papers sent by Capt. Thompson to Adams; offer of service. — *July 12, 1779*. Another letter to the same. Gen. Moultrie's repulse of British at Charleston, S. C. ff. (2).
72. [Lovell, James]. *June 13, 1779*. Letter from Philadelphia to Arthur Lee. Deane's charges against Lee; Burke, Laurens, Gerry, S. Adams, Holton, Ellery, Wm. Lee, Izard, R. H. Lee; change in committee of foreign affairs; J. Adams. Signed, J. L.; indorsed "copy" though apparently in Lovell's handwriting; also indorsed on outside, "Received thus from Mr Adams the 11th Febr. 1780, i.e. with the wax fingered not open'd. Mr. Adams had it from Dr. Franklin." ff. (2).
73. **Bondfield**, John. *June 22, 1779*. Letter from Bordeaux to Arthur Lee. News of ships; union of Spanish and French fleets; Ford; financial arrangements. ff. (2).
74. [Lee, Arthur]. *June 25, 1779*. Copy of note to Count Florida Blanca, with the memorial to Spain given on p. 70. Need of additional naval force to aid America. With copy of another letter dated *Dec. 16, 1779*. D'Estaing. On the back is a copy of another letter to some lord. f. (1). (Imperfect — torn.)
 See also p. 70. — Printed, with additional sentence, in Sparks' Diplomatic correspondence, II. 251; the letter of Dec. 16 in Lee's Life of Arthur Lee, I. 278.
75. **Bondfield**, John. *June 26, 1779*. Letter from Bordeaux to Arthur Lee. News through Capt. John Green, of Philadelphia; Carmichael; R. H. Lee; R. Morris; position of British and American armies; Gerard, Chaumont, Holker. ff. (2).
- Ventades**, —. [June, 1779?]. Note to Count Sarsfield. Spanish declaration; Almodovar. Not dated. ff. (2).
 The date is surmised from the date of the declaration, which was June 26, 1779.
76. **France** — *King's Council*. *June 29, 1779*. Enforcement of order of Sept. 23, 1778, about prizes; Izard. ff. (2).
77. **Vaughan**, —. *July 3, 1779*. Extract from a letter to Arthur Lee. Inquiries concerning property of a minor. ff. (2).
- Franklin**, Benjamin. *July 5, 1779*. Copy of letter to Com. Gillon. Aid for Carolina; squadron under Joyner; "Alliance"; loans. Certified as true copy by John Joyner. f. (1).
78. **Pringle**, John Julius. *July 7, 1779*. Letter from Amsterdam to Arthur Lee. Inclosure from Temple; Grand; J. Adams; Vergennes, Wm. Stockton; Izard. f. (1).
 [Gardoqui, James]. *July 7, 1779*. Letter from Bilbao to Arthur Lee. Spain's declaration; Digges; Spanish seamen. Signed J. G. ff. (2).
79. **Pringle**, J. J. *July 12, 1779*. Letter from Amsterdam to Arthur Lee. Views on the public situation; public virtue; La Motte-Picquet; J. Adams; Temple; Beaumarchais; Stockton; Izard. ff. 3. (Imperfect — slightly torn.)
 Other people are referred to by numbers.
80. **Rosignan**, Sigard, *Marquis de*. *July 15, 1779*. Letter, in French, from St. Maurice to Arthur Lee. Illness; views on public affairs. ff. (2).
 Printed, Lee's Life of Arthur Lee, II. 367.
81. **Continental Congress, Second — Committee of Foreign Affairs**. *July 16, 1779*. Letter from Philadelphia to Arthur Lee. News of British plans; Gen. Washington; Gov. Trumbull; destruction of Fairfield; want of news from Spain; Gerard; Congress; Deane and Lee. Signed, "James Lovell, for the com^{tee}"; indorsed, "No 1." ff. (2).
 Printed, Sparks' Diplomatic correspondence, II. 253.
82. —. Another copy of the same. ff. (2).
83. —. The same. Indorsed, "3 plicate." f. (1).
84. **Virginia Gazette**. *July 17, 1779*. Extract of a letter from Philadelphia, dated June 24, 1779. "Junto" in congress; Deane's narrative; foreign loan; Arthur Lee; France and Spain; terms of peace; New England delegates; commissioners at Paris; [Thornton; Ford]; Gov. Johnstone; Lee's recall. Not signed. ff. (2).

85. **Bondfield, John.** *July 17, 1779.* Letter from Bordeaux to Arthur Lee. News from America; Green; Henry Laurens; Deane; Gen. Arnold; Gouverneur Morris; [Carmichael]; desire to be of service in Spain. ff. (2).
- Continental Congress, Second—Committee of Foreign Affairs.** *July 17, 1779.* Letter from Philadelphia to William Lee. Recall of commission to Vienna and Berlin; reference to papers in hands of Arthur Lee and Dr. Franklin. Signed, "James Lovell for the com^{tee}"; indorsed, "3 plicate." ff. (2).
- Printed, Sparks' Diplomatic correspondence, II. 350.
86. 87. [**Lovell, James**]. *July 17, 1779.* Letter from Philadelphia to Arthur Lee. Failure in sending letters; Bingham; Franklin; John Adams; journals of congress; recall of William Lee and Izard; R. H. Lee's resignation from congress; attempts to injure Arthur Lee's reputation; Deane; Laurens; S. Adams; Whitlock; uselessness of the committee; F. L. Lee; Lee's letters to Shelburne, Jennings; Boux. Signed, J. L. pp. (6).
88. **Continental Congress, Second—Committee of Foreign Affairs.** Another copy of the letter on p. 85. Indorsed, "3 plicate," with P. S. added. f. (1).
- This P. S. is not printed in Sparks' Diplomatic correspondence.
89. **Moustier, E. F. É., Comte and Marquis de.** *July 19, 1779.* Letter from Coblenz to [Arthur Lee]. Spanish declaration; Deane's attack on Lee. ff. (2).
- Printed with date July 29, and verbal differences in Lee's Life of Arthur Lee, II. 375.
90. **Franklin, Benjamin.** *July 21, 1779.* Note to Arthur Lee. Inclosure of letter. ff. (2).
- Pringle, J. J.** *July 22, 1779.* Letter from Amsterdam to Arthur Lee. Temple; Sayre; change in commissions; Franklin; news of victory in Carolina; Stockton. ff. (2).
91. **Harris, John.** *July 23, 1779.* Letter from Nantes to Arthur Lee. Distress of Fortton prisoners arrived at France in the cartel. ff. (2).
92. **B., J.** *July 24, 1779.* Letter from Bordeaux to Arthur Lee. Debt; the Alliance; Capt. J. P. Jones; Chaumont; Goulade; Moylan. ff. (2).
93. **Champion, Richard.** *July 25, 1779.* Copy of letter to Moses Livingstone. Wharton; Digges; Izard; Lloyd. f. (1).
- Izard, Ralph.** *July 26, 1779.* Letter from St. Amand to Arthur Lee. Decision of court on restoring Izard's property; Maurepas; Prevost. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 78.
94. [**Lovell, James**]. *Aug. 6, 1779.* Letter from Philadelphia to Arthur Lee. Receipt of communications; "Henry, Francis and S. Adams"; Laurens; Whitlock; condition of committee for foreign affairs; Deane; Franklin; commissioners in Europe; Izard; William Lee; Wayne; D'Estaing. Indorsed, "copy (private)", also, No. 3; signed, J. L. ff. (2).
- [—]. Another copy of the last sentences. Wayne; D'Estaing; Deane. f. (1).
95. [—]. *Aug. 6, 1779.* Letter from Philadelphia to Benjamin Franklin. Receipt of letters; Dumas; Deane; Lee. Signed, J. L.; indorsed, "(copy) private." f. (1).
96. **Continental Congress, Second.** *Aug. 6, 1779.* Extracts from minutes. Directions to commissioners and commercial agents about accounts; appointment of Joshua Johnson as examiner. Signed, Chas. Thomson sec'y. f. (1).
- See Journals of congress, II. 308, 373.
97. —. The same, with additional resolutions. Salaries of commissioners; accounts. Signed, James Lovell. f. (1).
- Found inclosed in the letter of Oct. 14, from Lovell to A. Lee. (p. 123). — See Journals of congress, II. 308.
98. —. Copy of the same. f. (1).
99. —. Another copy of the same. f. (1).
100. **Blanco, Florida, Count.** *Aug. 6, 1779.* Letter, in Spanish, to Arthur Lee. Acknowledgment of letters; relations of Spain and England. With translation. ff. (2). (Imperfect—torn).
- Translation printed, Sparks' Diplomatic correspondence, II. 254, and without date in Lee's Life of Arthur Lee, I. 279.
101. [**Lovell, James**]. *Aug. 6, 1779.* Original of the letter on p. 94. Indorsed, private; signed, J. L. ff. (2).
- Izard, Ralph.** *Aug. 8, 1779.* Letter from St. Amand to [Arthur Lee]. Ford; Prevost's defeat; Charleston; [William Lee]. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 78.
102. **Franklin, Benjamin.** *Aug. 8, 1779.* Copy of certificate to committee of congress. Ross's accounts; Wharton, Bancroft. f. (1).
103. **Pringle, J. J.** *Aug. 16, 1779.* Letter from Amsterdam to [Arthur Lee?]. William Temple; Franklin; St. Eustatia; Charleston; Gen. Williamson; William Craig; Davidson; Pulaski; Stockton; Pollard; [William Lee]; Petrie; Deane; Neufville; Sayre; Dumas. ff. (2).
- Sarrafeld, —, Comte de.** *Aug. 19, 1779.* Note, in French and English, to Arthur Lee. Inquiries about lodging; barony of Quintin. ff. (2).
104. **Pringle, J. J.** *Aug. 19, 1779.* Letter from Amsterdam to Arthur Lee. Virginia politics; Hall; Braxton; Jefferson; Nelson; Page; [F. L. Lee; R. H. Lee]; Henry; Deane. ff. (2).
- [**Lee, Arthur**]. *Aug. 21, 1779.* Letter to R. H. Lee. Fleet for invading England; Lafayette; British fleets; uncertainty about recall; Izard; William Lee; Ford; action of northern powers; paper money; Carolina. Not signed. ff. (2).
105. [**Jennings, Edmund**]. *Aug. 22, 1779.* Letter to Arthur Lee. [William Lee]; Bridgen; Lee's recall; Izard; Grand. Signed, J. Clement. ff. (2).
- Bondfield, John.** *Aug. 24, 1779.* Letter from Bordeaux to Arthur Lee. Financial troubles; La Motte-Picquet; Charleston; Prevost; Ross; Gillon; Carmichael; Franklin; Chaumont; Jones. ff. (2).
106. [**Izard, Ralph**]. *Sept. 1, 1779.* Letter from St. Amand to [Arthur Lee]. Naval movements; Braxton; Pringle; Bondfield; Deane; health. Not signed. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 79.
- [**Jennings, Edmund**]. *Sept. 8, 1779.* Letter from Boulogne to Arthur Lee. Naval movements; disposition of congress; Izard. Signed, J. Clement. ff. (2).
107. **Grand, Ferdinand.** *Sept. 11, 1779.* Letter to Arthur Lee. Accounts. Signed, "for Mr. Grand, Hy. Grand." ff. (2).

- Franklin, Benjamin. *Sept. 12, 1779.* Note to Arthur Lee. Journals. ff. (2).
108. [Isard, Ralph]. *Sept. 12, 1779.* Letter from St. Amand to Arthur Lee. D'Estaing; Byron; Granada; return to Paris. Signed, R. I. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 81.
- Jenings, Edmund. *Sept. 15, 1779.* Letter from Boulogne to Arthur Lee. Tour into Flanders; payment of pension. ff. (2).
109. Warren, James. *Sept. 17, 1779.* Letter from Boston to Arthur Lee. Opening of a letter; Lovell; expressions of esteem. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 271.
- 110, 111. Lovell, James. *Sept. 17, 1779.* Letter from Philadelphia to Arthur Lee. Letters to and from France; R. H. Lee; F. L. Lee; Laurens; Whipple; John Adams; Vergennes; Sergeant; Ingersoll; Warren; Schweighauser; Luzerne; S. Adams; Ford; Spain; Virginia supplies; Dumas; Franklin; Harrison; Jay; Reed; cypher; William Lee; Izard. ff. (4).
112. Sarsfield, —, *Comte de.* *Sept. 19, 1779.* Letter, in French, to Arthur Lee. The Sensible; army; Izard. With seal. ff. (2).
113. [Lovell, James]. *Sept. 21, 1779.* Letter from Philadelphia to [Arthur Lee?]. Gerard; new appointment of commissioners; changes in congress; Jenings; Ingersoll; Sergeant; S. Adams, John Adams; Ellery; constitutional convention. Signed, J. L. f. (1).
114. [—]. *Sept. 22, 1779.* Letter to Arthur Lee. Despatches to Dr. Franklin; seizure of bearer of letters; decision on Spanish affairs; Luzerne; Vergennes' opinion of Lee and John Adams. Indorsed, private. f. (1).
115. Jenings, Edmund. *Sept. 25, 1779.* Letter to Arthur Lee. Tour to Flanders; negotiation; suspension of arms; Lloyd. ff. (2).
[Lovell, James. *Sept. 27 (?)*, 1779.] Note to [Arthur Lee]. Appointment of minister plenipotentiary; Jay; Carmichael; Deane. Signed, "A Friend to your Merits"; not directed; marked in pencil, "1779, 27 Sept." f. (1).
116. Sarsfield, —, *Comte de.* [Oct. or Sept. 2, 1779?]. Note, in English, to [Arthur Lee?]. Return of papers; visit to Paris. Not superscribed. ff. (2).
- The date is not very legible, 7ber and 8ber being written over each other, and the year being apparently 1775; the paper is marked in a later hand, in pencil, 2 Oct. 78. If to Arthur Lee the year is probably 1779, and the fact of its being in English would seem to place it thus late, as only the count's later letters were in English.
117. [Jenings, Edmund]. *Oct. 3, 1779.* Letter from Brussels to Arthur Lee. Retirement of members of congress; Carrol; commissioners. Signed, J. Clement. ff. (2). (Imperfect — torn; memorandum on back.)
Jones, John Paul. *Oct. 3, 1779.* Extract of a letter from Texel to Goulard & Moylan. Engagement with the enemy; Alliance; Bon Homme Richard. — Cottineau. *Oct. 4, 1779.* Extract of a letter from Texel in French. Account of the same engagement; list of prizes. ff. (2).
118. Harris, John. *Oct. 4, 1779.* Letter from L'Orient to Arthur Lee. Thanks of recommendation; Gillon. ff. (2).
Franklin, Benjamin. *Oct. 4, 1779.* Extract from letter to congress. Bills of exchange; loans. — March 4, 1780. Disposition of French court; supplies for America; Ross; Johnson;

Deane; Lee. — *May 26, 1779.* Commissions to strangers. f. (1).

The full letter from which these extracts are taken is printed in Sparks' Diplomatic correspondence, III.

119. Jenings, Edmund. *Oct. 6, 1779.* Note from Brussels to Arthur Lee. Complaints against nephew. ff. (2). (Imperfect — torn.)
Heredia, —, *de, Secretary of the Spanish Embassy.* [Oct. 6, 1779?]. Letter, in French, to Arthur Lee. Rodney; English and Spanish vessels. Not dated; marked in pencil in a later hand, "6 Oct. '79?" ff. (2).
120. —. *Oct. 11, 1779.* Note, in French, to Arthur Lee. Appointment. f. (1).
[Isard, Ralph. *Oct. 12, 1779?*] Note to [Arthur Lee?]. Departure of Gerard; letter. Signed, R. I.; not superscribed; dated, Wednesday morning; marked in pencil in a later hand, "11 Oct. '79?"; indorsed, "Gerard's going." f. (1). (Imperfect — torn.)
If this was written about Oct. 11, '79 Wednesday fell on the 12th; there is nothing in the letter to guide a surmise.
121. [Lee, R. H.?]. *Oct. 12, 1779.* Letter from Virginia to Arthur Lee. Controversy with Deane; Whipple; S. Adams; J. Adams; Mercer; Fitzhugh; Flemming; Griffen; William Lee; Izard. Signed and mostly written in cipher; only the P. S. appears to be in R. H. Lee's hand; indorsed, No. 4. ff. (2).
122. Continental Congress, *Second.* *Oct. 13, 1779.* Extract from the minutes. Lee's recall; appointment of Jay. Signed, James Lovell. f. (1).
See Journals of congress, V. 383.
123. [Lovell, James]. *Oct. 14, 1779.* Letter to Arthur Lee. Bondfield; letters; Spanish commission; Jay; Deane's charges; Mercer; Gerard, Schweighauser; Shippen. Indorsed, "private"; signed, J. L. ff. (2).
124. [—]. *Oct. 14, 1779.* Letter to Arthur Lee. Spain; Jay; Bondfield; Deane; Mercer; Gerard; Schweighauser. Indorsed, "private. Duplicate." ff. (2).
In wording different, in substance duplicate of the preceding letter (p. 123).
125. [Bondfield, John]. *Oct. 16, 1779.* Letter from Bordeaux to Arthur Lee. Chaumont; Franklin; detention of goods and despatches for America. Not signed. ff. (2).
[Jenings, Edmund]. *Oct. 17, 1779.* Letter to Arthur Lee. [Nephew John]; Mercer; Mrs. Izard. ff. (2). (Imperfect — torn.)
126. [Benoit, Mlle.]. Letter, in French, to Arthur Lee. Expressions of love. Not signed; dated only Monday. With translation. Marked in pencil in a later hand, "17 Oct. 79?" ff. (4).
127. [—]. Letter, in French, to Arthur Lee. Dated only Friday; not signed. With translation. Indorsed, "Mlle. Benoit." ff. (2).
[—]. Another letter to Arthur Lee. With translation. ff. (2).
128. [Sarsfield, —, *Comte de.*]. *Oct. 22, 1779.* Letter from Rennes, in French, to Arthur Lee. Departure of Americans; D'Estaing; return to Paris. ff. (2). (Imperfect — torn.)
[—]. *Oct. 24, 1779.* Letter from Chambière near Rennes, in French, to Arthur Lee. Lee's reputation; departure; Mrs. Izard. ff. (2). (Imperfect — torn.)
129. [—]. Two letters from Chambière, in French, to Arthur Lee. Advice; obscure references;

- D'Estaing. ff. (4). (Imperfect—torn; date gone.)
130. **Jenings**, Edmund. Oct. 25, 1779. Letter to Arthur Lee. Nephew; Genet; re-publication of article from Remembrancer; Deane; fall of English stocks. ff. (2). (Imperfect—torn.)
[Lee, Arthur]. Nov. 7, 1779. Letter to F. L. Lee. Resignation from congress; settlement for Virginia supplies; events of the campaign; D'Estaing; Spanish mission; recall. Not signed. ff. (2).
131. **Rosignan**, Sigard, *Marquis de*. Nov. 14, 1779. Letter from Turin, in French, to [Arthur Lee?]. Fleets; D'Estaing; character of certain men. Not superscribed; indorsed, "No 7." ff. (2).
Bondfield, John. Nov. 20, 1779. Letter from Bordeaux to Arthur Lee. Detention of packet; Chaumont; Franklin; Virginia; South Carolina; Holland; Landais; Jones; Jamaica; D'Estaing; Spain; plan for packets; Izard. ff. (2). (Imperfect—torn.)
132. **Gillon**, Alexander, *Commodore*. Dec. 8, 1779. Letter from Frankfort to Arthur Lee. Report of attempt to buy ships and military stores. ff. (2).
Many references in cipher.
Bondfield, John. Dec. 11, 1779. Letter from Bordeaux to Arthur Lee. Changes among commissioners; Jay, William Lee, Livingston, Izard, Carmichael, Penet; Ross; Delap; Deane; Gillon; R. Morris; Holker. ff. (2).
133. —. Dec. 13, 1779. Letter from Bordeaux to Arthur Lee. News from Georgia; Americans jealous of France; Washington; Rhode Island; Sullivan; D'Estaing; Savannah; John Adams; Franklin; Spain and Portugal; Jones; Amsterdam. ff. (2).
134. **Braxton**, Carter. Dec. 16, 1779. Copy of letter from Williamsburg, Va. to Capt. Cunningham. Directions for a privateering cruise; Phripp; Willing & Morris. Indorsed as true copy, "Att. Ezekl. Price." ff. (2).
[Jenings, Edmund]. Dec. 22, 1779. Letter to Arthur Lee. Sentiments of British cabinet; independence of America; Lord Chatham; Jay; John Adams; Lawrence. Signed, J. Clareville. ff. (2). (Imperfect—torn.)
135. **Izard**, Ralph. Dec. 23, 1779. Letter from Amsterdam to [Arthur Lee?]. Savannah news; D'Estaing; Prevost; loan of money; plans in America. ff. (2). (Imperfect—torn.)
Printed, Lee's Life of Arthur Lee, II. 81.
136. **Schweighauser**, J. D. Dec. 30, 1779. Letter from Nantes to Arthur Lee. Disbursements for Virginia; delivery of plate to Capt. Jones. Franklin; Cortentine. f. (1). (Imperfect—stained and torn.)
2. **Vergennes**, Charles Gravier, *Comte de*. Jan. 9, 1780. Letter, in French, to Arthur Lee. Leave of the French court. With English translation. ff. (2).
3. **Lee**, William. Jan. 20, 1780. Letter from Brussels to Arthur Lee. Extract from letter of Arthur Lee, May 1, 1777, to William Lee; character of commissioners; Deane; Franklin; Williams. Extract, certified as true copy by Edmund Jennings. ff. (2).
4. **Bondfield**, John. Jan. 22, 1780. Letter from Bordeaux to Arthur Lee. Samuel Wharton; Chaumont; Franklin; John Adams; Izard. ff. (2).
[Jenings, Edmund]. Jan. 24, 1780. Letter to [Arthur Lee?]. Change of commissioners; John Adams; Holland; Great Britain's infringement of rights of neutrals on the sea; quotation in French from Baron de Bielfield. Signed, Mac Gregor; not superscribed. ff. (2). (Imperfect—torn.)
5. [—]. Jan. 27, 1780. Letter from Brussels. Acceptance of the Order of St. Louis. Signed, Mac Gregor; not superscribed; enigmatically expressed. ff. (2). (Imperfect—torn.)
6. **Bondfield**, John. Jan. 29, 1780. Letter from Bordeaux to Arthur Lee. John Adams; Chaumont; Izard; Haller; debt due from Virginia. ff. (2).
7. [Gillon, Alexander, *Commodore*]. Feb. 14, 1780. Letter from Amsterdam to Arthur Lee. Attempts to purchase vessels. Not signed; indorsed, "Commodore Gillon" and "Outside cover directed by A. G." ff. (3).
8. **Bondfield**, John. Feb. 19, 1780. Letter from Nantes to Arthur Lee. John Adams; Chaumont; Livingston and Mary Phearson; Virginia debts; D'Acosta; Haywood; report of English invading Virginia. ff. (2).
[Jenings, Edmund]. Feb. 22, 1780. Letter from Brussels to Arthur Lee. Expedition from Ireland for the West Indies; Walsingham's ships; Russia; John Adams. Signed, Donald Mac Donald. ff. (2).
Printed, Lee's Life of Arthur Lee, II. 107.
9. —. Feb. 28, 1780. Copy of letter to Charles Carroll. Abbé Mably's views; introduction of Arthur Lee. ff. (2).
Sartine, Antoine Raymond Jean Gualbert Gabriel de, *Minister of Marines*. March 1, 1780. Note of farewell, in French, to Arthur Lee. ff. (2).
10. **Le Roy**, Herman. March 2, 1780. Letter from Amsterdam to Arthur Lee. Thanks for Mr. Pringle's introduction to Lee; Chabanel; Admiral Byland. ff. (2).
Bondfield, John. March 3, 1780. Letter from Nantes to [Arthur Lee?]. Arrival of ship from Plymouth, Mass.; Bancroft; Lawrence; R. H. Lee. Not superscribed. f. (1).
11. **Bretetill**, Louis Auguste DE TONNELIER, *Baron de*. March 4, 1780. Letter of farewell to Arthur Lee. Luzerne. f. (1).
Franklin, Benjamin. March 4, May 31, 1780. Copy of memorandum to Congress concerning supplies. f. (1).
See Sparks' Diplomatic correspondence, III. 129, 143; Sparks' Franklin, VIII. 459.
12. [Lee, William]. March 21, 1780. Letter from Brussels to F. L. Lee. Failure to receive let-

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1. **Izard**, Ralph. Jan. 3, 1780. Letter from Amsterdam to [Arthur Lee]. Lee's resignation; Digges; Courier de l'Europe; John Adams; Franklin; the Confederacy, Alliance, Serapis, Countess of Scarborough; Beaumarchais; D'Estaing; Clinton; Prevost; Charleston; Capt. Gillon, Capt. Joyner. ff. (2). (Imperfect—torn.)
Printed, Lee's Life of Arthur Lee, II. 82.

- ters; Arthur Lee; family matters. Not signed. ff. (2).
- [Isard, Ralph]. *March 21, 1780.* Letter from Paris to Arthur Lee. Garnier; Grand; arrival of the Tonant; Gillon. Signed, R. I. ff. (2).
13. **Stone, William, Smith, Thomas, and Bunner, George, Pilots from South Carolina.** *March 22, 1780.* Memorial from Brest to Arthur Lee. Governor of South Carolina; D'Estaing; the Languedoc; misfortunes. f. (1). (Imperfect — stained and torn.)
14. [Sarsfield, —, *Comte de*]. *March 22, 1780.* Portion of letter, in French, to [Arthur Lee?]. D'Aranda, D'Heredia; Carmichael. ff. (2). (Imperfect — stained, and the lower part torn off.)
- Smith, Michael, and others.** *March 28, 1780.* Memorial, dated L'Orient, to Arthur Lee. Trouble as exchanged prisoners; Milford cartel; Capt. Cottineau; non-payment of wages. Signed, Michael Smith, Thomas Cave, Patrick Reed, James Mullin, Moses Bigger, John Rayworth, Wm. Green. f. (1).
15. **Grinnell, William, and Wilson, Joseph.** *March 29, 1780.* Letter from L'Orient to Arthur Lee. Sickness; officers of the Alliance under J. P. Jones; expenses. ff. (2).
16. **Grand, [Ferdinand], banker.** *April 8, 1780.* Letter from Paris, in French, to Arthur Lee. Opinion of Lee at French court; Count d'Aranda. ff. (2). (Partly illegible from stain.)
- Bondfield, John.** *April 15, 1780.* Letter from Nantes to Arthur Lee. Chaumont; delay of ships; Izard; Franklin; Williams; Jay; Carmichael; Ross; Bancroft; fleet from Brest destined for Quebec; clothing for Washington's army; intimacy of Mrs. Johnson and Mrs. Williams; Peltier; Beaumarchais; De Montieu; Zacestas (?); Virginia trade; Samuel Wharton; illness of Franklin. ff. (2).
17. **Wara, —, Baron de.** *April 19, 1780.* Letter from Paris, in French, to Arthur Lee. Lee's departure; Paradez; declaration concerning neutral vessels by the empress of Russia. ff. (2).
- [Lee, Francis Lightfoot?]. *April 24, 1780.* Part of letter to [Arthur Lee]. Introduction of George Mason, Jr.; Deane; advice to visit Gen. Whipple, Samuel Warren, Ellery, Merchant, Trumbull; George Wythe; Ludwell Lee. Addressed in cipher; no place of date; last part gone. f. (1). (Imperfect.)
- The handwriting resembles R. H. Lee's, but is more exact; the writer also refers to Ludwell Lee as "your nephew."
18. **Williams, Jonathan.** *April 24, 1780.* Copy of letter from Nantes to Lieut. Digges. Answer of letter; Alliance; Hills; Nicholson; Parkes's prize money. Indorsed, "about the sale of Wickes's prizes." Memorandum on back, of "Snow Friendship," sloop Betsey, sloop Jason, brig Matvey, brig Jenney. On the same sheet as the following.
- Franklin, Benjamin.** *April 26, 1780.* Copy of letter to Samuel Ross. Prize money of Capt. Wickes of the Reprisal; Thomas Morris, Morris & Lee; Bancroft. ff. (2).
19. **Laurens, Henry, [?r. ?].** *May 4, 1780.* Note from Wilmington, N. C., to R. H. Lee. Death of Col. Parker; danger of Charlestown [ton]. ff. (1).
- Lee, William.** *May 17, 1780.* Letter from Brussels to [Arthur Lee]. Inclosure of copies of certificates concerning Thomas Morris's papers; Robert Morris; Ross; Alliance; Capts. Wickes, Johnson, Nicholson; prizes; Franklin; Williams; Gourlade & Co.; Jones; Green. The first copied certificate is signed, William Blake, John Lloyd; the second, Ra. Izard, witness J. J. Pringle; the last, B. Franklin, "in our presence S. Deane — Arthur Lee"; all certified to by Edm. Jennings. ff. (2).
20. **Wara, —, Baron de.** *May 29, 1780.* Letter from Paris, in French, to Arthur Lee. Confederation of the north; letter of Clinton to Lord Germaine; fleets of Toulon and Brest; Paradez. ff. (2).
- 21, 22. **Gillon, Alexander, Commodore.** *June, 1780.* Letter from Paris to John J. Cripps & Mey, of Charleston, S. C. Opinion upon Franklin, Deane, Bancroft, Robert Morris; commendation of John Adams, Arthur Lee, William Lee, Izard; Chaumont; difficulty of getting supplies for states; improvement of public service; Holland; Prussia. ff. (4).
23. **Shelburne, William Petty, Earl of.** *June 2, 1780.* Note of personal friendship to Arthur Lee. Dunning; Barré. ff. (2).
24. **Sartine, A. R. J. G. G. de.** *June 3, 1780.* Letter, in French, to Arthur Lee. Arrangements for Lee's passage to America; governor of Martinique; Alliance; Paul Jones; Franklin. ff. (2).
25. **Franklin, Benjamin.** *June 7, 1780.* Copy of letter to Capt. Peter Landais. Orders not to meddle with the Alliance. Certified on Aug. 26, 1780, by Ja's Warren and Fitch Pool as true copy of a copy sent from Capt. Jones to Capt. Parke. Indorsed, No. 1. f. (1).
26. —. *June 16, 1780.* Copy of letter to Capt. Landais. Repetition of order. — Copy of letter to the officers and seamen of the Alliance to obey Capt. Jones. Indorsed No. 2, No. 3. Certified as the above (p. 25). f. (1).
27. —. *June 12, 1780.* Extract of letter to Capt. Jones. Mutiny of 115 men of the Alliance; Capt. Landais; prize money; Ariel. Indorsed, No. 4. Certified as the above (pp. 25, 26). f. (1).
- Printed in part, Life of John Paul Jones, Phil., Lippincott, 1858, p. 162.
28. **Brown, Joseph.** *June 18, 1780.* Letter from L'Orient to Arthur Lee. Petition for the prize ship Serapis; Franklin; Bancroft; Wharton; Jones. ff. (2). (Imperfect — bottom torn off.)
- [Lee, Arthur]. *June 25, 1780.* Draft of letter to Capt. Landais. Advice to him to sail with the Alliance. ff. (2).
29. **Jones, John Paul.** *June 27, 1780.* Letter from L'Orient to Robert Morris. Orders to return with the Alliance to Philadelphia; sale of the Serapis; honors from the French court; Luzerne; Landais; Ariel; prevention of bloodshed; sailors of the Bon Homme Richard; conduct of Arthur Lee; Deane; Franklin; zeal for America. ff. (2).
30. —. *June 27, 1780.* Letter from L'Orient to the president and board of admiralty at Philadelphia. Pleasure at the appointment of the board by Congress; mutiny, Lee, Landais; Robert Morris; Capts. Bell, Montgomery, Smith; Franklin; action of Flamborough Head. f. (1).
- Vergennes, Charles Gravier, Comte de.** *June 30, 1780.* Copy of letter, in French, to John Adams. Resolution of congress of March 18, 1780; desires of French court; Luzerne. Indorsed, No. 1. ff. (2).
- Translation printed, Adams' Works, VII. 212.
31. —. *June [30, 1780].* Translation of letter to Benj. Franklin. Adams' representations,

Luzerne; payments of paper money to the French. Incorrectly indorsed, *July* 30. ff. (2). (Imperfect — stained and torn.)

Printed, Sparks' Diplomatic correspondence, III. 152; Sparks' Franklin, VIII. 477.

32. **Adams, John.** *July* 1, 1780. Copy of letter from Paris to Count Vergennes. Luzerne; resolutions of Congress; loan office certificates. Indorsed, N^o. 2. f. (1).

Printed Adams' Works, VII. 213; Sparks' Diplomatic correspondence, V. 233.

Page, John. *July* 4, 1780. Letter from Rosewell, Va., to R. H. Lee. Association for weakening Tory influence; Arthur Lee; William Lee. ff. (2).

33. **Vergennes, C. G., Comte de.** *July* 20, 1780. Copy of letter, in French, to John Adams. Destination of Ternay and Rochambeau; assurances of the friendship of the French court. Indorsed, No. 4. f. (1).

Translation printed, Adams' Works, VII. 232; Sparks' Diplomatic correspondence, V. 278.

Adams, John. *July* 21, 1780. Copy of letter to Count Vergennes. Ternay; Rochambeau; appreciation of the friendship of the French. Indorsed, N^o. 5. f. (1).

Printed, Adams' Works, VII. 233; Sparks' Diplomatic correspondence, V. 279.

34. **Vergennes, C. G., Comte de.** *July* 25, 1780. Copy of letter, in French, to John Adams. Objections to U. S. commissioners treating with Lord Germaine; treaty of commerce; desire to communicate first with congress. With copy on the margin of portions of Adams' letter of *July* 17. Indorsed, N^o. 6 & 7. ff. (4).

Translation printed, Adams' Works, VII. 235, etc.; Sparks' Diplomatic correspondence, V. 287, etc. Adams' letter printed, Adams' Works, VII. 228, etc.; Sparks' Diplomatic correspondence, V. 266.

35. **Adams, John.** *July* 26, 1780. Copy of letter to Count Vergennes. Same subject; duke of Richmond; Hartley; Lord North; sentiments of the people of England; America; advantage to Europe. Indorsed, N^o. 8. pp. (8).

Printed, Sparks' Diplomatic correspondence, V. 294.

37. —. *July* 27, 1780. Letter to Count Vergennes. Needs of Americans; assistance of France; admiral Graves, Ternay, Rochambeau; Guichen; reinforcements in the West Indies. Indorsed, N^o. 9. ff. (2).

Printed, Adams' Works, VII. 241; Sparks' Diplomatic correspondence, V. 301.

38. **Vergennes, C. G., Comte de.** [*July*] 31, 1780. Translation of letter to [Benjamin Franklin]. Disagreement with John Adams; list of letters between Vergennes and Adams during June and *July*. ff. (2). (Very imperfect — torn.)

Printed, Sparks' Diplomatic correspondence, V. 305.

39. **Lee, Arthur, and others.** *Aug.* 5, 1780. Copy of letter to Capt. Landais. Petition to sail; danger of loitering. Signed, Arthur Lee, Pontigbaud, La Colombi, Poirey, Ludwell Lee, Thomas Lee, John Middleton, E. Brush, Joseph Wilkinson, Joseph Brown Junr, John G. Frazer, Henry Ash, M. Comyn, M. Livingston. f. (1). (Imperfect — worn.)

Buckley, John, and others. *Aug.* 10, 1780. Copy of petition from the officers of the Alliance to Capt. Landais to enter port as soon as possible. Signed, John Buckley, James Lynd, M. Park, John Lauhar, James Warren, Thomas Ellwood,

Benjamin Pierce, John Darling, James Bragg, Isaac Carr, N. Blodget, Thomas Hinsdale, George Thayer, Samuel Guild, Joseph Willson, George Raymond. — Copy of statement of officers. Capt. Landais's refusal of the petition; offer of command to 1st Lieut. James Diggs. Signed as above, with the additional names, Fitch Pool, John Savin. ff. (2). (Imperfect — one corner torn.)

40. **Gordon, William.** *Sept.* 15, 1780. Letter from Jamaica Plain to Ezra Stiles. Introduction of Arthur Lee. f. (1).

— *Sept.* 15, 1780. Letter from Jamaica Plain to Benjamin Lord, Norwich, Conn. Introduction of Arthur Lee. f. (1).

41. [**Lee, Arthur**]. *Sept.* 19, 1780. Draft of letter from Boston to Baron Breteuil. Distress in America; depreciation of money; want of funds; need of loan of thirty or forty million livres; advantages of British in north and south. Not signed. ff. (2). (Partly illegible from stains.)

42. **Cooper, Samuel.** *Sept.* 19, 1780. Letter from Boston to Ezra Stiles. Introduction of Arthur Lee. ff. (2).

Printed, Lee's Life of Arthur Lee, I. 166.

— *Sept.* 19, 1780. Letter from Boston to Enoch Huntington, Middletown, Conn. Introduction of Arthur Lee. ff. (2).

Printed, Lee's Life of Arthur Lee, I. 166.

43. —. *Sept.* 19, 1780. Letter from Boston to Andrew Elliot, Fairfax, Conn. Introduction of Arthur Lee. ff. (2).

Printed, Lee's Life of Arthur Lee, I. 165.

44. **Huntington, Samuel.** *Oct.* 26, 1780. Letter from Philadelphia to Arthur Lee. Inclosure of act of congress; desire for information on affairs in Europe. ff. (2).

45. **Lee, Arthur.** *Oct.* 27, 1780. Note to Messrs. Madison, Bee & Clark. Directions about furniture. ff. (2).

46. **Bondfield, John.** *Nov.* 1, 1780. Letter from Bordeaux to Arthur Lee at Philadelphia. Receipt of letter through Mr. Brush; Sartine; Chaumont; arrival of the Fier Rodrique; Deane; Franklin; refusal of Bondfield's ships; claims against Virginia; Williams. Indorsed as forwarded by W^m Vernon. ff. (2).

47. —. Duplicate of the last.

48. **Sarsfield, —, Comte de.** *Nov.* 5, 1780. Letter from Valenciennes, in French, to Arthur Lee. Armed neutrality; Gillon; John Adams; Izard, defeat of Gen. Gates [at Camden]; paper money of America; Bunker Hill; Gen. Warren. ff. (2). (Imperfect — torn.)

49. **Carmichael, William.** *Dec.* 6, 1780. Letter from Brandywine, Penn., to Arthur Lee. Lee's defence; Deane, Williams, Franklin; exhortations to perseverance. ff. (2). (Partly illegible from stains.)

50. **Extracts from the trial of Capt. Landais.** *Dec.* 20, 1780? Linn; conduct of Lee on passage to America; Stephen Waters; Blodget; Winship; reasons for taking command of the Alliance; Gillon; Franklin; Montbarrey; Ross; Lafayette; Diggs; Jones. Not complete. ff. (2).

The date is taken from the indorsement in pencil added by a later hand.

51. **U. S. — Treasury office.** *Dec.* 28, 1780. Extracts from the minutes. Deposition of public property by Arthur Lee. Signed, Cornelius Comerys, Clk. f. (1). (Imperfect — worn.)

- [Sarsfield, —, *Comte de*]. Oct. 13, [1780 or '81]. Letter from Rennes, in French. References to letters and books received. No address or signature. f. (1). (Imperfect—torn.)
52. Copy of questions to be asked in court. Will of William Bird; Thomas Newman; petition for writ of subpoena. Attest. Robert Graham. Marked in pencil "1780?" (f.) r. (Imperfect—first part gone.)
53. U. S. — *Auditor General*. Jan. 1, 1781. Copy of report on John Ross's accounts. With report from the commissioners of the chamber of accounts, dated Jan. 5. The commissioners' report signed, William Govett, John D. Mercier; the auditor-general's, James Milligan. Copy compared by W^m Duer, Secy. ff. (2).
54. Warren, James. Jan. 10, 1781. Letter from Boston to Arthur Lee. Information; Blodget; finances; publication of letters by British; Cooper. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 273.
- [Sarsfield, —, *Comte de*]. Jan. 11, 1781. Letter from Valenciennes, in French, to Arthur Lee. Death of sister; Luzerne; declaration of war by England against Holland; D'Estaing; Izard; success of Gates against Ferguson. Not signed. ff. (2).
55. Blodget, Nathan, *Purser of the Alliance*. Jan. 25, 1781. Deposition, dated Boston. Arthur Lee's goods; Landais. ff. (2).
- Parke, M., *Capt. of Marines*. Jan. 29, 1781. Copy of deposition, dated Boston Harbor. Blodget's goods. — Similar deposition, Jan. 31, 1781, signed James Diggs, Lieut., Chipman Bangs, ship's Steward. Each certified as true copy by N. Blodget. ff. (2).
56. [Bondfield, John]. Feb. 24, 1781. Letter from Bordeaux to Arthur Lee. Rupture between England and Holland; Russia's offer of mediation; Dutch navy; Spanish fleet; fleet from Brest for America; John Laurens; interception of mails; Deane, Bancroft, Chaumont; Virginia's debts; D'Acosta, Beaumarchais. — March 20, 1781. Postscript. Mediation of Russia and Austria; Joseph Yorke; Choiseul; arrival of John Laurens. Signed, J. B. ff. (4).
57. [Sarsfield, —, *Comte de*]. March 8, 13, 1781. Letter from Paris, in French, to Arthur Lee. Departure of Letombe; mediation of Russia; armed neutrality; John Adams; Searle; Dana; son of John Laurens; Bondfield; Joseph Yorke; Lord North. Not signed. ff. (2). (Imperfect—torn.)
58. [Brown, John, *Secretary of the Admiralty*]. March 10, 1781. Copy of letter to Samuel Wharton. Inquiry concerning purchase of stores for America; Jones; Lafayette; Chaumont; Williams. Indorsed, "True Copy from the Original A. Lee." f. (1).
59. Jones, J. P. March 13, 1781. Extracts from answers to the board of admiralty. Schweighauser; William Lee; Franklin; Bon Homme Richard; Sartine; Landais; Ariel, Alliance; Ross; Chaumont; Serapis; Goullade & Moylan; Wharton; Arthur Lee; Livingston. Addressed to Arthur Lee. f. (1).
60. Wharton, Samuel. March 23, 1781. Letter from Philadelphia to John Brown. Purchase of stores for America; Chaumont; Williams; Goullade & Moylan; Jones. Indorsed, "True Copy from the Original A. Lee." f. (1).
- See p. 58 for the letter of questions.
61. [Bondfield, John]. April 1, 1781. Letter from Bordeaux to Arthur Lee. Reduction of St. Eustatia; fleets of France, Spain, England, Holland; Lawrence; De Castre; Col. Palfrey; De Grasse, D'Estaing, De Touche. Signed, J. B. ff. (2). (Slightly imperfect.)
- Warren, James. April 29, 1781. Letter from Boston to Arthur Lee. Secretary for foreign affairs; Franklin; want of news; elections; Ward; Lovell; Adams; [Blodget]; navy board. f. (1).
- Printed, Lee's Life of Arthur Lee, II. 274.
62. Wara, —, *Baron de*. May 4, 1781. Letter from Paris, in French, to Arthur Lee. Laurent [John Laurens]; mediation; Virginia; Palfrey. ff. (2).
- Izard, Ralph. May 12, 1781. Letter from Philadelphia to R. H. Lee. Arrival of vessel from L'Orient; news of fleet having sailed from Brest with French troops for America; loss of the Luzerne with mail; Virginia; movements of French troops; Rutledge; Laurens; Jefferson. ff. (2).
63. [Lee, Arthur]. After June 15, 1781. Draft of resolutions to be presented to congress. Revocation of appointment of Franklin, Jay, Henry Laurens, and Jefferson as ministers plenipotentiary jointly with John Adams to treat for peace; similar powers to John Adams alone. Indorsed with memoranda on other subjects. Incorrectly indorsed, "1 March, 1781." f. (1).
- This appears from the Journals of congress, both public and secret, never to have been presented.
64. [Bondfield, John]. June 25, 1781. Letter from Bordeaux to Arthur Lee. Chaumont; paper money; John Adams; Spain; insurrection in Peru; Russia; armed neutrality; Holland; resignation of Necker; Jolly; England's loss in the East Indies; French and Spanish fleets; journey of French emperor; German troops to aid British in America; fate of the ship Marquis de Lafayette; plan of sending supplies. Signed, J. B. ff. (2).
- [Warren, James]. July 4, 1781. Letter from Boston to Arthur Lee. Receipt of letter; attention to Lee's grant of land; Blodget; political state of affairs; Virginia. Signed, J. W. ff. (2).
- Printed, Lee's Life of Arthur Lee, II. 275.
65. Jackson, William. July 5, 1781. Copy of letter from Amsterdam to Benjamin Franklin. Necessity for a ship sailing with supplies; repeal of orders to Messrs. Fiseaux; Laurens; Gillon; Necker; delay, an increased expense. ff. (2).
- The letters of July 2, referred to in this letter, and Franklin's answers thereto, are printed in Sparks' Diplomatic correspondence, III, 221-226; also in Sparks' Franklin, IX, 49-54; but this letter is not printed.
66. [Lee, Arthur]. Aug. 13, 1781. Copy of letter to the president of congress. Reports of the board of admiralty; Alliance; Landais; Franklin; denial of charges; Lafayette; Williams; Jones; Ross; Bondfield; Ternay; Bland; Gillon; Diggs. Not signed. ff. (4).
67. Continental Congress, *Second*. Aug. 14, 1781. Copy of report on motion of Virginia delegates. Resolutions to grant passports to governors of Virginia and Maryland; importation of 50,000 bushels of salt. f. (1). (Imperfect—slightly torn.)
- Printed, Secret journals of congress, I. 225, 226.
68. Bretotill, L. A. DE T., *Baron de*. Oct. 2, 1781. Letter from Paris, in French, to Arthur Lee. Thanks for copy of American constitutions. ff. (2).

- [**Sarsfield**, —, *Comte de*. 1781. Letter from Rennes, in French. American legislation, Guilford Court House; Palfrey; Malesherbes; Mrs. Izard. Not signed or addressed. ff. (2). (Imperfect — stained and torn.)
- Bowdoin**, James. *Jan. 31*, 1782. Letter from Boston to Arthur Lee. Election as fellow of the American academy of arts and sciences; degree of LL.D. from Harvard university; defeat of Cornwallis. f. (1).
- Printed, Lee's Life of Arthur Lee, I. 177.
69. [**Lee**, William]. *Feb. 12*, 1782. Letter from Bruxelles to F. L. Lee. No receipt of letters for five years; private business; estate in Virginia; Philip Ludwell Lee; family matters. Signed, W. L. ff. (2).
70. **Gordon**, William. *March 2*, 1782. Letter from Jamaica Plain to Arthur Lee. Election to Congress; Deane; Arnold; Samuel Adams; freedom of the press in Boston; Lovell; Gates; reduction of Canada; Burgoyne; Gen. Greene. f. (1).
71. **Franklin**, Benjamin. *March 4*, 1782. Extract from a letter to the secretary for foreign affairs. Deane; Arnold; Johnson; Searle. ff. (2).
- Printed, Sparks' Diplomatic correspondence, III. 312; Sparks' Franklin, IX. 176.
72. [**Lee**, Arthur]. *April 12–June 29*, 1782. Notes on letters from Franklin and Jay. Carleton; capture by Spaniards of St. Joseph on the Illinois; Diggs; treaty. No signature; hastily written on back of letter. f. (1).
73. [**Jay**, John?]. *April 28*, 1782. Substance of letters. Complaint of Spanish minister against Gillon; prizes; Searle; Carmichael; Franklin; Del Campo; Holland; Spain; France. ff. (2).
- Madison**, James. *May*, 1782. Letter from Philadelphia. Parliamentary discussions; conciliatory overtures; military coercion; Jay; Carmichael; Spanish successes; western claims. Not superscribed. f. (1).
74. **Morris**, Robert. *May 10*, 1782. Copy of letter from the office of finance to the president of congress. Inclosure of state of the American commerce. ff. (2).
- See pp. 75, 76. Printed, Sparks' Diplomatic correspondence, XII. 150.
- Blodget**, Nathan. *May 10*, 1782. Letter from Boston to Arthur Lee. Franklin; Chaumont; John Brown; David Sears. ff. (2).
75. **Superintendent of Finance**. [*May 10*, 1782.] State of American commerce, referred to above (p. 74). pp. 7.
76. —. [*1782?*] Estimates upon state of the tobacco trade. ff. (2).
- These two were probably drawn up at about the same time, as they are by the same hand as the indorsement on Morris's letter (p. 74).
- 77, 78. **Continental Congress**, *Second*. *May 24*, 1782. Extracts from the minutes. Account and application of money borrowed in France; Franklin; Vergennes; Beaumarchais; Laurens; Virginia; Morris; Coutleux; Grand; Holland; Ross; Bingham; William Lee. Signed, Geo. Bond, Dep't. Sec'y.; indorsed, M^r. A. Lee. ff. (3).
- Printed, Secret journals of congress, I. 231, etc.
79. **Allen**, William. *June 23*, 1782. Copy of deposition. Capt. Camue of the Cornwallis; ammunition taken from Frazer's Ferry. Sworn to before Carter Braxton. f. (1).
- Madison**, James. *June 25*, 1782. Letter from Philadelphia. Dutch resolutions in favor of America; Friesland, Holland; Utrecht, Zealand, Overysse; American trade; St. Eustatia. Not superscribed. ff. (2). (Imperfect — torn.)
80. **Franklin**, Benjamin. *June 25–29*, 1782. Extracts, in Arthur Lee's handwriting, from a letter to the superintendent of finance and to the secretary for foreign affairs. Suspicion of English intentions; enabling act; independence; treaty of Paris; Grenville; journal of events. ff. (2).
81. **Barclay**, Thomas. *June 29*, 1782. Extracts from letter No. 3, dated Amsterdam. Deane's accounts; Carmichael; Chaumont; money advanced to prisoners and officers; journey to Toulon; Beaumarchais; desire for instructions. ff. (2).
82. **Lee**, Arthur, and others. *July 15*, 1782. Copy of report of committee on Capt. Barry's information. Loss of the Lafayette; Moylan; Williams; Laurens; Capt. Robinson; Chaumont; Franklin; contents of ship; resolution requesting comparison with the log-book of the Alliance. Attested as true copy by R. Alden. Indorsed as report made by Mr. Lee, Mr. Ramsay, Mr. Lowell. ff. (2).
- See Journals of congress, VII. 411.
83. **Schweighauser & Dobrée**. *July 17*, 1782. Letter from Nantes to Arthur Lee at Philadelphia. Examination of accounts; Johnson; Franklin; Penet; Laurens; Fitzherbert; East India; Alliance. Indorsed, Quadruplicate. ff. (2).
84. **Gordon**, William. *July 26*, 1782. Letter from Jamaica Plain to Arthur Lee. Fishery question in making peace; John Adams; naval plan of English; Dutch successes; Rodney; Knox; Lincoln; Deane; Sears. f. (1). (Imperfect — torn.)
85. **Jennings**, Edmund. *July 29*, 1782. Letter from Brussels to Arthur Lee. Acts of British parliament; Shelburne; Sir George Saville; Fox; English affairs in India; Irish; negotiations for peace; Dutch; Spain; Laurens; Dana; Izard. ff. (2). (Imperfect — torn.)
- Bondfield**, John. *Aug. 1*, 1782. Letter from Bordeaux to Arthur Lee. Order for claret; Jay; Madrid court; William Lee. ff. (2).
86. **Barry**, John. *Aug. 2*, 1782. Copy of deposition before the committee of congress. Substance the same as that of the paper on p. 82. Sworn before Joshua Coit, Justice of Peace. Attested as true copy by R. Alden, Dep't. Sec'y. ff. (2).
87. **Sarsfield**, —, *Comte de*. *Aug. 4*, 1782. Letter from Haerlem, in French, to Arthur Lee. Care of Lee's effects; John Adams; Lee's election to Virginia assembly; Izard's election to congress; prevalence of influenza; Palfrey. ff. (2). (Imperfect — torn.)
- Jay**, John. *Sept. 16*, 1782. Extracts from letter to the secretary for foreign affairs. Inclosure of letter from Marbois to Vergennes; French delays about the negotiation for peace; Franklin; fishery claims; Samuel Adams; extract from letter from John Adams; alliances with Spain and Holland; extract from letter from Franklin; Deane; adventurers. In Arthur Lee's handwriting. f. (1). (Imperfect — torn.)
- See Sparks' Diplomatic correspondence, VIII. 125, where the letter is dated Sept. 18.
88. **Greives**, George. *Sept. 23*, 1782. Letter from Philadelphia to Arthur Lee. Security for a bill; Shippen. ff. (2).
- Lusérne**, Césaire Anne de la. [*About Sept. 24*,

1782.] Notes in Arthur Lee's handwriting of proposal to congress. United States not content with independence; continuation of war until allies are satisfied. f. (1).

See Sparks' Diplomatic correspondence, XI. 115.

89. **Gordon, William.** Oct. 2, 1782. Letter from Jamaica Plain to Arthur Lee. Mail-robbing; John Temple; Price; James Sullivan; John Adams; Franklin; accusation upon suspicion. f. (1).

Printed, Lee's Life of Arthur Lee, II. 288.

90. **Adams, John.** Oct. 10, 1782. Letter from the Hague to Arthur Lee. Minister from Holland to congress; Van der Capellan de Pol; Van Berckel; independence of action; Jay; Dana; Laurens; ability of ministers; secret commissions; Franklin. Indorsed, "3 plicate." ff. (2). (Almost illegible from stains and pale ink.)

91. —. Another copy.

Both this and the last (p. 90) have autograph signatures.

92. [**Dana, Francis.**] Oct. 25, 1782. Letter to Arthur Lee. Correspondence; tories; [John Adams]; Holland; obscure references to persons and views mentioned in Lee's letter. Not signed; marked in pencil, "Francis Dana"; indorsed, No. 2. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 284.

Jay, John. Nov. 17, 1782. Copy of note. Relations with France; Geneva; Corsica. In Arthur Lee's handwriting. With memorandum on back about clothing. f. (1).

93. **Communications** from foreign ministers about the negotiations for peace. **Dana.** Oct. 21. Commerce with Russia; Nov. 7. Treaty with Russia. **Jay.** Dec. 12. Vergennes; Franklin; treaty; Shelburne; Carleton; D'Aranda; western claims; Oswald, Bainvall, Vaughan. **Adams.** Treaty with Great Britain and with Spain; navigation of Mississippi; evacuation of New York; D'Estaing; tories. **Jay.** Nov. 17. Same as above (p. 92). **Lee.** Concurrence in Jay's view. Proposed boundary to the United States. f. (1).

These are items extracted from different letters at different times by Arthur Lee.

94. **Adams, John.** Nov. 18, 1782. Copy of letter from Paris to Robert R. Livingston, secretary for foreign affairs. Remonstrance against the ministers being subject to the advice of the French court. Certified as true copy by A. Lee. ff. (2).

Printed, Sparks' Diplomatic correspondence, VI. 459; Adams' Works, VIII. 11.

95. [**Sarsfield, —, Comte de.**] Dec. 11, 1782. Letter from Paris, in French, to Arthur Lee. Failure in receiving letters; Mrs. Izard; Lee's effects; John Adams; Laurens; Gibraltar; Biville; Androens. ff. (2). (Imperfect—torn.) **Campbell, Arthur, Col.** Dec. 27, 1782. Letter from Richmond to Arthur Lee. Reservation of western lands; introduction of European settlers; negotiations for peace; opponents; purchase of books. ff. (2).

96. **Bondfield, John.** March 6, 1783. Letter from Bordeaux to [Arthur Lee?]. Spain; Carmichael; Jay; Franklin; Laurens; Adams; liquidation of debts; Lafayette; western boundaries; Mississippi river. f. (1).

Warren, James. March 14, 1783. Letter from Milton, Mass., to Arthur Lee. Attested copy of paper desired; Lee's lands; peace; arrival of

packet for congress; John Adams' resignation; fishery claims; Gen. Lincoln. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 278.

97. **Morris, Robert.** March 17, 1783. Copy of letter to the president of Congress. Explanation of resignation as financier; loss of credit in Europe; impost law. Extract from a letter by Luzerne, March 15; Vergennes. f. (1).

Printed, Sparks' Diplomatic correspondence, XII. 341.

98. **Gordon, William.** April 2, 1783. Letter from Jamaica Plain to Arthur Lee. Congratulations on peace; extract from London Courant of Jan. 10; Laurens; Deane; Franklin; boundaries of Nova Scotia; John Adams; Shirley, Pownall, Bernard, Hutchinson, Sir William Alexander; fishery claims; British creditors and refugees; Jay; Pennsylvania, Virginia, New York; importance of the confederation; state rights; [Massachusetts], Rhode Island; satisfaction to military; choice of governor. f. (1). (Imperfect—torn).

Printed, Lee's Life of Arthur Lee, II. 289.

99. **Adams, John.** April 12, 1783. Copy of letter from Paris to Arthur Lee. Peace; negotiations; Hartley; Fox; Shelburne; Laurens; tories; dissatisfaction in England; treaty of commerce; Marbois; French politics; distinct interests of America. f. (1).

Printed, Lee's Life of Arthur Lee, II. 248; also in Adams' Life of John Adams, IX. 517, with an additional opening paragraph referring to the difficult situation of the commissioners and to Franklin's part in the history of the treaty.

- 100, 101. **Officers of the Virginia Line.** May 12-16, 1783. Memorial to the senate and house of delegates of Virginia. Assignment of lands; Muhlenberg, Weedon, Scott, Morgan; Wood, Heth, Temple, Hopkins, Towles, Clark, Burwell, Carrington. Signed, I. Muhlenberg, President of the Board. Attested, John Beckley. ff. (4).

102. **Laurens, Henry.** June 17, 18, 1783. Extracts from letters. Negotiations for peace; Hartley; trifling; Fox; evacuation of New York; unmanufactured produce. ff. (2).

See Sparks' Diplomatic correspondence, X. 173.

[**Sarsfield, —, Comte de.**] June 19, 1783. Lee's effects; Mrs. Izard; Mad. L'Eucruil (?); Barclay; American debts; French soldiers; future commerce; Russia, Turkey; Shelburne. No signature. ff. (2).

103. **Bondfield, John.** June 20, 1783. Letter from Bordeaux to Arthur Lee. Lee's effects; Mrs. Izard; Richard Yates; William Lee; Barclay; Deane; Williams; Jay; Laurens; Adams; Spain; Carmichael; Russia, Turkey, England, France; public debts in America. ff. (2).

- 104-107. **Adams, John.** June 23, July 14, 18, 1783. Extracts from letters to R. R. Livingston. New situation of Ireland, Canada, Nova Scotia; uncertainty of course of Great Britain; free trade; West Indies; treaty of commerce with England; jealousy of American trade in France and England; proclamation; belief of England in want of unity in America; necessity for a minister at London; Shelburne; Benjamin Vaughan; Pitt; negotiations necessary with the Dutch, Danes, Portuguese; management of foreign affairs; public credit. pp. 8.

Printed, Adams' Life of John Adams, VIII. 74, 97, 107.

108. **Bondfield, John.** July 1, 1783. Letter from Bordeaux to Arthur Lee. Shipping of Lee's effects. ff. (2).

Commissioners for Peace. *July 18, 1783.* Extract from letter of John Adams, Franklin, Jay. Disposition of France. f. (1).

See Sparks' Diplomatic correspondence, X. 191.

109. —. *April 14, June 23, 24, 27, July 7, 8, 18, 22, 27, 1783.* Extracts from letters of different dates. Negotiation for peace; concealment of secret article; Spain; France; definitive treaty; payment of debts to British; negroes; Hartley; commercial regulations; Shelburne party preferable to the new ministry; disposition of French. ff. (2).

For the letters of these dates, see Sparks' Diplomatic correspondence, X.

110. **Franklin, Benjamin.** *July 22, 1783.* Extract from letter. British commercial proclamation; remedies. f. (1).
111. —. *July 22, 1783.* Extract from letter to Congress. [John Adams'] suspicions of French court. Attested as true copy, A. Lee. f. (1).

Both these will be found printed, Sparks' Diplomatic correspondence, IV. 136, etc.

112. **Milligan, James, Controller of the Treasury.** *July 25, 1783.* Copy of letter to the board of treasury. John Swanwick's accounts; receivers of taxes. Compared with the original by Wm Duer, Secy. ff. (2).

[Continental Congress, Second]. *Aug. 14, 1783.* Copy of letter to Gov. Harrison, dated Princeton. Accounts with Virginia; adjournment to Philadelphia. Not signed. ff. (2).

113. **Scott, John.** *Aug. 20, 1783.* Letter from Dumfries, Va. to Arthur Lee. Political sentiments in Virginia; Lee's prospects; Col. Grayson; Col. Blackburn; Richard Graham; Col. Alexander; removal of Congress from Philadelphia; Georgia speculation; Col. Martial. ff. (2).

114. **Rendorez (?)**, Francisco. *Aug. 27, 1783.* Letter from Philadelphia to Arthur Lee. Breach of laws of nations against Spain; request for investigation; Church, Haydon; Col. Bland. ff. (2).

115. **Bondfield, John.** *Sept. 20, 1783.* Letter from Bordeaux to Arthur Lee. Congratulation on Virginia's condition in regard to debts; Price & Hayward; obligations received; reimbursement from Virginia notes, etc.; John Dickinson; Montet & Henry. ff. (2).

Lloyd, John. *Oct. 14, 1783.* Letter from Charleston to [Arthur Lee]. Removal of congress from Philadelphia; danger of political corruption in America; judgment against Deane; delegate to congress. ff. (2).

116. **Bondfield, John.** *Oct. 20, 1783.* Letter from Bordeaux to Arthur Lee. Price & Hayward; Nelson, Heron & Co.; Carter Braxton's estate; Schweighauser & Dobrée; R. H. Lee; Digges; Waterman; American commerce; domestic improvements; Carmichael; American debts. ff. (2).

[Continental Congress, Second. *Nov. 25, 1783?*] Drafts of letters to a foreign minister. Effects carried off by French officer; arrival of definitive treaty; evacuation of New York city; [Washington's] character. No signature, address, or date. Marked in pencil, "25 Nov. 1783?" f. (1).

117. **Gillon, Alexander, Commodore.** *Nov. 29, 1783.* Letter from Charleston to Arthur Lee. Removal of congress; Robert Morris; Lloyd. ff. (2).

118. **Higginson, Stephen.** *Nov. 1783.* Letter from Boston to Arthur Lee. Removal of congress; impost duties; public credit; treasury department; marine department; Morris; Russell, Parker; Hawkins. ff. (2).

119. **Virginia — House of Delegates.** *Dec. 22, 1783.* Copy of resolution. British trade; impost duties; claim to country north-west of the river Ohio. Signed, John Beckley, Clk. Agreement by senate signed, W. Drew. f. (1).

[Barnfield, —, Comte de]. *Jan. 29, 1784.* Letter from Paris, in French, to [Arthur Lee]. Lee's effects; Mrs. Izard; Izard; Princeton; Adams; Malesherbes; Luzerne; Marbois; London; Holland. Not signed. ff. (2). (Imperfect — torn.)

120. **Dana, Francis.** *Feb. 3, 1784.* Letter from Cambridge to Arthur Lee. Minister to St. Petersburg; congress. ff. (2).

Printed, Lee's Life of Arthur Lee, II. 287.

121. **Lafayette, Marie Jean Paul Roch Yves Gilbert DE MOTIER, Marquis de.** 1784. Extract from an essay, in French, on the commerce of France with the United States. ff. (2).

122. [Barnfield, —, Comte de]. *April 23, 1784.* Letter from Paris, in French, to Arthur Lee. Col. Harrison; Lee's effects; English parliament; Fox; North; Izard. Not signed. ff. (2).

123. **Continental Congress, Second.** *April 26, 1784.* Appointment of G. R. Clarke, Oliver Wolcott, Richard Butler, Philip Schuyler, Benjamin Lincoln, and Arthur Lee as commissioners to treat with Indians; Six Nations; Cherokees; Nathaniel Greene, Stephen Higginson. With seal. Signed, Thos. Mifflin, Chas. Thomson, Secy. f. (1), doubled.

124. **Harrison (?)**, Matts. *Aug. 16, 1784.* Letter to Arthur Lee. News from Maryland. f. (1).

Lafayette, M. J. P. R. Y. G. DE M., Marquis de. *Sept. 30, 1784.* Letter from Fort Schuyler to the commissioners with the Indians. Arrangements about meeting, and about summoning the chiefs; Courtland; Oneidas. — *Oct. 1.* Draft of answer. Kirkland; Oneidas; Wolcott; Marbois; accommodations. ff. (2).

Printed, without answer, Lee's Life of Arthur Lee, II. 362.

125. **Fonda, Jelles, and others, Judges of the Inferior Court of Montgomery County, New York.** *Oct. 15, 1784.* Letter from Johnstown, N. Y., to the commissioners with the Indians. Sale of liquor to the Indians; jurisdiction of the court. Signed, Jelles Fonda, Zephaniah Batcheller, Christian Nelles, Peter Lambert, George H. Bell; superscribed, Oliver Wolcott, Richard Butler, Arthur Lee. ff. (2).

126. **Extract** from a letter, *March 14, 1785*, from Paris, in French. Prospects of war; cession of Bavaria to Austria; empress of Russia; king of Prussia. Not signed or addressed. ff. (2).

127. **Continental Congress, Second.** *June 15, 1785.* Proclamation forbidding intrusion upon the unappropriated lands north-west of the Ohio. Printed; signed, Richard Henry Lee, P., Charles Thomson, Sec'y. New-York: printed by F. Childs. *Broadside.*

See Journals of congress, X. 212.

128. —. *June 15, 1785.* Copy of resolutions. Directions to the commissioners with the Indians; cession of lands; Kaskaskia; St. Vincent's; oath of allegiance; prohibition of intrusion, etc.; proclamation as above; directions to the board of treasury; appropriations; purchase

of goods, provisions, etc. Signed, Chas. Thomson, Secy. f. (1).

Printed, *Journals of congress*, X. 211-213.

129. **Butler**, Richard. *July 5, 1785*. Letter from Philadelphia to Arthur Lee. Arrangements about treaty; Campbell; Clark; Wolcott; Montgomery. ff. (2).
130. **Continental Congress**, *Second*. *July 9, 1785*. Resolutions about the treaty with the Indians. Place of treaty; troops. f. (1).
131. **Letter**, *Sept. 4, 1785*, from the Hague. Opening of the Scheldt; internal politics of Holland; parties of patriots and Orangemen; Van Berckel; pensionary of Dort; affection for America; De Verac, Sir James Harris; position of American minister; "Germanique Ligue" between Prussia, Saxony, and Brunswick. ff. (2). (Imperfect — last part gone.)
- Virginia — Council**. *Oct. 15, 1785*. Copy of advice to the governor. Payment of interest on loan-office certificates; extract from act of congress relative thereto, April 28, 1784. Signed, A. Blair, C. C. f. (1). (Imperfect — torn.)
132. **Henry**, Patrick. *Oct. 20, 1785*. Copy of letter from the council-board. Loan-office certificates; copy of resolution of the assembly, Dec. 8, 1785; directions to the treasurer of Virginia. Not superscribed. ff. (2).
- Virginia — Assembly**. *Dec. 8, 1785*. Copy of the above resolution. With memorandum by J. Hopkins, C. L. officer. ff. (2).
133. **Copy of letter**, *Dec. 29, 1785*, from New York to Patrick Henry. Loan-office certificates; debts of Virginia. Not signed. ff. (2).
134. **Lee**, Arthur. *Jan. 26, 1786*. Copy of letter to the marquis of Lansdown. Employment of Indians by civilized nations; Thomas Lee Shippen. ff. (2). (Imperfect — first part gone.)
135. **Jefferson**, Thomas. *April 22, 1786*. Letter from London to R. H. Lee. Lamps; Thomson; commercial treaty with England; Lansdown; Price; Arthur Lee; the king's obstinacy; Gen. Clark. ff. (2).
- Printed, *Jefferson's Works*, II. 1.
- Continental Congress**, *Second*. *June 2, 1786*. Copy of resolution. Settlement by board of treasury of accounts of secret committee of congress and commercial committee. Signed, Charles Thomson, Secretary. f. (1).
- Printed, *Journals of congress*, XI. 115.
136. **Wormley**, Ralph. *Dec. 25, 1786*. Letter from Rosegill, Va., to [Arthur Lee?]. Marriage; "the magician"; Corbin; chief magistrate of the United States; disturbances in the eastern states; impeachment of Warren Hastings; George Hardinge; Fox; Pitt. Not superscribed. ff. (2).
- 137, 138. **Gardoqui**, Joseph. 1786 or 1787. Representations touching the claim of Spain to the navigation of the Mississippi. ff. (4).
- 139-141. **Shelburne**, Wm. Petty, *Earl of, Marquis of Lansdown*. *Feb. 4, 1787*. Letter from London

to Arthur Lee. T. L. Shippen; parties in England; Lord Rockingham; future friendship with America; Indians; Mad. Pohgrave (?); Lord Wycombe. ff. (6).

Printed, *Lee's Life of Arthur Lee*, II. 357.

142. **Wormley**, Ralph. *Feb. 8, 1787*. Letter from Rosegill, Va., to [R. H. Lee?]. Death of Mrs. Tayloe, and of Mrs. Page; disturbances in the eastern states; Lord Dorchester; Randolph; regulations of commerce; federal government; Burke; subscriptions to loan; "the magician." Not superscribed. ff. (2).
143. **Hopkins**, John. *May 20, 1787*. Letter from Richmond to Arthur Lee. Interest on military debt of Virginia; Lee's land; Ambler; Hays. ff. (2).
- Corbin**, Francis. *Aug. 8, 1787*. Letter to Arthur Lee. Destruction of court-houses; governor of Virginia; petitions for paper money, etc.; R. H. Lee; money transaction, C. Lee, Morris, Hunter. ff. (2).
144. **Turberville**, George Lee. *Oct. 26, 1787*. Letter from Richmond to Arthur Lee. Submission of federal plan of government to people; Madison; Carrington; Lee; Brown; Cyrus Griffin; Randolph. ff. (2).
145. —. *Oct. 28, 1787*. Letter from Richmond to Arthur Lee. Plan of government; Wilson; character of newspapers; Gen. Clark and Creek Indians in Georgia. ff. (2).
146. **Otto**, —, *chargé d'affaires de France*. *Nov. 16, 1787*. Letter from New York, in French, to Arthur Lee. Presentation of portrait of king of France. With translation and copy of answer. ff. (2).
147. **Virginia — House of Delegates**. *Dec. 16, 1787*. Copy of resolutions. Inquiry about continental state money issued from the continental loan office. Signed Wm. Harwood, Cl. H. D. ff. (2).
148. **[Sarsfield, —, Comte de]**. *Jan. 12, 1788*. Letter from Paris, in French, to [Arthur Lee]. Thanks for news; visit to England; Borwood; Wycombe; Waller; "non-catholics" in France. Not signed. ff. (2).
149. **Livingston**, Ann H. *Oct. 5, 1788*. Letter from Philadelphia to her uncle, Arthur Lee. Journey of brother; Holland; Strasburg; Switzerland; family matters. ff. (2).
150. **Sarsfield**, —, *Comte de*. *April 24, 1789*. Letter from Paris, in French, to Arthur Lee. Jefferson; desire to hear from Lee; danger of revolution in France. ff. (2).
151. **[Lee, Arthur]**. *Aug. 29, 1789*. Letter to [F. L. Lee]. Taylor; abolition of board of treasury; visit to Virginia; R. H. Lee; William Lee; judiciary bill; seat of federal government; crickets; Campbell; prospective war in Europe; France; Turkey; Russia. impost bill in congress. Not signed or superscribed. ff. (2).
152. **Bondfield**, John. *Oct. 8, 1790*. Letter from Bordeaux to Arthur Lee. Business trouble with Thomas Shore of Petersburg, Virginia; price of grain; H. L. Shore; Fenwick, Mason & Co. ff. (2).

APPENDIX.

*. The papers included in the eighth volume were not arranged by Mr. James Winthrop Harris, when he prepared volumes one to six for binding in 1869. Vol. vii. was arranged but not bound till 1877. Since Mr. Harris's death these additional manuscripts have been found in a parcel marked "Lee Papers," but without any indication of the reasons for not including them in the series as arranged. Many of them are fragmentary, and without dates, and such arrangement has been made of them as seemed practicable.

VOL. VIII.

1. **Pennsylvania** — *Assembly*. Oct. 21, 1741. Extracts from votes granting money to the Crown. ff. (2).
2. **Value** of exports from 5 Jan. 1769 to Dec. 1770. Statement by Colonies. f. (1).
3. **Sundry** advertisements about rolling wagons. Mar. 15, 1773. A printed paper, 3 pp. MS. memoranda on reverse.
4. **Continental Congress**, *First*. Copy of address to the people of Great Britain. ff. (5).
This was drafted by R. H. Lee. Cf. Lee's Life of R. H. Lee, i. 119; Pitkin's United States, i. app. 17; Jay's Life of John Jay, i. app.
5. [Lee, Arthur]. Memoranda relating to the presentation of the petition of Congress to the King, including Arthur Lee's letter, Dec. 22, 1774, to R. H. Lee; with an addition, Dec. 24, covering a copy of Lord Chatham's note; and another, Dec. 26. Copy of the letter, signed Henry Middleton, President, transmitting the petition to the colonial agents in London. ff. (4).
6. [Lee, Arthur]. Memorandum about interview with Lord Dartmouth regarding the petition to the King, with copy of letter, signed by Richard Penn and Arthur Lee, and dated London, Sept. 2, 1775, and addressed to the President of Congress. f. (1).
See Lee's Life of Arthur Lee, i. 45.
7. [Lee, Arthur, and others]. Memoranda. Willing, Morris & Co. Financial matters in 1776. Profit and loss account. Drafts. Extract from a report to the Board of Treasury, signed James Milledge, dated, Aug. 14, 1786. Dissection of receipts and payments, 1781. Public goods from Europe, 1781-83. Morris's contract for supplying rations, 1782, etc. ff. (10).
8. **Langdon**, John. Unfinished copy of letter, Apr. 4, 1776. f. (1).
9. **Deane**, Silas. Copy of extracts of letter, dated Paris, Dec. 3, 1776. Financial matters. Certification to the correctness of the copy, lodged in the Treasury of the United States, signed Samuel Osgood, and dated, July 5, 1788. ff. (4).
10. **Carmichael**, Wm., in acc't with The Honorable Silas Deane, Esq., 1776 and 1777. A copy. ff. (2).
11. **Statement** of war material shipped by the government of France to the United States, Aug. 1776 to Mar. 1777. f. (1).
12. **Comptes** des sommes que J. Sollier de Paris a recues et payé à Messieurs Franklin, Deane, et Lee. 1777. f. (1).
13. **Soldiers'** clothes furnished by French houses, 1777. f. (1).
14. **Invoice** of sundry merchandise shipped on ship Theresa from Nantes to St. Domingo, Apr. 20, 1777. Attested copy. With memorandum of Jos. Pennell, 1782. f. (3).
15. **Deane**, Silas, in account with Wm. Hodge, 1777. £113,720. 12s. 7d. ff. (2).
16. **Account** of sales of four hogsheads of peltry. 1777. ff. (2).
17. **Lee**, Arthur. Drafts of letters: *a*. Berlin, June 28, 1777, to commissioners at Paris, about army clothing. *b*. Berlin, July 7, 1777. To same. Robbed of his papers. Doings of English envoy. *c*. Paris, July 29, 1777. To chairman of secret committee. Mission to Berlin. Robbery of papers. Sale of German troops to England. *d*. Paris, Sept. 9, 1777. To the chairman of the secret committee. Opening of German ports. ff. (6).
18. **Morris**, Robert, and others. Jan. 14, 1777. Extracts from letter from Philadelphia to Leonard Jarvis. Marine and mercantile affairs. Extract of affidavit by Morris, Aug. 2, 1785, concerning agreement with Blair McClenahan in Dec. 1776, for charter of ship. Extract of affidavit by McClenahan, Apr. 19, 1786, regarding the same. Affidavit (copy) of Richard Carne, Feb. 14, 1778, concerning the capture of the ship; and extract from Registry of Admiralty at Nantes on the same point. ff. (3).
19. **Lee**, Arthur, and others. Drafts of letters, 1777-78, concerning the Messrs. Delap's custom of addressing their letters to only two of the commissioners. ff. (2).
20. **Lee**, Arthur, in account with the United States, 1777-79. 376,500 livres. ff. (2).
21. **Compte** courant des États Unis par Messieurs Franklin, Lee, and Adams, chez F. Grand. Paris, Nov. 22, 1778. ff. (4).
22. — Aug. 8, 1778. ff. (2).
23. **Morris**, Feu Monsieur Thomas, de Nantes p^{re}cte des États Unis. 1777-78. f. (1).
24. **Compte** courant des États Unis par Messieurs Franklin, Lee, and Adams chez F. Grand. June 30, 1778. ff. (2).
25. [Fragment of accounts, in French. 1777-78.] f. (1).
26. **Nikal**, Jno. M. Note without date to Mr. Hines, attorney, Gosport. ff. (2).
27. **Messieurs** Franklin, Deane, and Lee, etc. courant chez Ferdinand Grand de Paris. Jan. 24, 1778, with copies of notes, signed by the commissioners, 1777-78. ff. (6).
28. **Lee**, Arthur. Paris, June 5, 1778. Memorandum of doings and talks.
29. **Note** in French, without signature, "Dimanche, 28," [1778?] to Arthur Lee, "à hôtel d'Espagne." ff. (2).
30. **De Breteuil**, Baron. Paris, ce 26 Fev. Note of invitation to Arthur Lee. ff. (2).
31. **De Chalut**. Note in French to Arthur Lee. f. (1).
32. **Livingston**, M. Affidavits, Apr. 11, 1778, and 20 Feb. 1779, regarding alleged stock jobbing of Lee and Izard. f. (1).
33. **Morris**, Robert. Feb. 17, 1778. Copy of letter to commercial committee. ff. (2). (Imperfect.)

34. **Harrison**, Benjamin. *Jan. 9, 1778*. Extract from letter at Williamsburg to Robert Morris. Procuring of boats and wagons. ff. (2).
35. **Copy** of address to the powers and people of Europe on the inhuman conduct of the war on the part of Great Britain, covering resolutions of Congress, *Jan. 2, 1776* and *Oct. 30, 1778*. ff. (8).
36. **The United States** of America, acc. with John Ross, *July 1, 1779*; duplicate copy. Audited by Samuel Wharton and Edward Bancroft, *July 10, 1779*; under authority of Franklin. Attested by Wm. Duer. ff. (2).
37. [**Lee**, Arthur]. Copies of letters addressed by him to committee of correspondence, *Nov. 20, 1778*; to le Comte Florida Blanca, *Dec. 17, 1778*, respecting cruelty in the conduct of the war on the part of the British; to le Comte d'Aranda, *Dec. 18, 1778*, in French, forwarding a letter; to Comte Florida Blanca, *Dec. 27, 1778*, concerning the manifesto of Congress on the British barbarities; to le Comte d'Aranda, in French, forwarding a letter. Copies, attested at l'Orient, *May, 1780*, by N. Blodget of Boston, and A. Windship of Boston. ff. (6).
38. **Compte des États Unis** par Messieurs Franklin, Lee, and Adams, chez F. Grand. *Feb. 11, 1779*. ff. (4).
39. **List** of bills received from Coten the banker, *1779*. ff. (1).
40. **Lee**, Arthur. Paris, *Apr. 27, 1779*. Observations on the contract made with the farmer-general for the delivery of 5000 hogsheads of tobacco by the Hon. B. Franklin and Silas Deane; followed by memorandum on Mr. Deane's letter of accusation, etc. ff. (8).
41. [**Lee**, Arthur]. Memoranda, *May 19, 20, June 4*. A French officer. Beaumarchais. Deane's address to the citizens of America. ff. (2).
42. **Return** of military and ordnance stores, clothing, etc., received and delivered by John Langdon, Esq., Portsmouth, *Mar. 8, 1779*. ff. (2).
43. **Jones**, John Paul, and others. "Extrait d'une lettre de John Paul Jones à Benjamin Franklin, datée au bord du Serapis dans le Texel, le 3 Oct. 1779," respecting the fight with the Bon Homme Richard. Extract of a letter from Capt. Pearson, of his majesty's ship Serapis, to Mr. Stevenson, dated Texel, *Oct. 6, 1779*, concerning the same fight. Extract of a letter from Capt. Jones, dated Texel, *Oct. 3, 1779*, regarding the conduct of the Alliance frigate. Extrait d'une lettre du Capt. Cotteneau, of the Pallas, dated Texel, *Oct. 4, 1779*, concerning the same fight. ff. (6).
44. **Franklin**, Benjamin. Passy, *Aug. 9, 1780*. To S. Huntington, President of Congress. Copy of a part of letter regarding John Adams's conduct in France. f. (1).
45. [**Lee**, Arthur]. Notes about the active alliance of France with the United States, dated *Jan. 25, 1780* and *Jan. 28, 1780*. ff. (2).
46. **Continental Congress**, Second. 1780. Report of a committee to receive a communication from the minister plenipotentiary of France, relative to terms of the French alliance and the Spanish demands. Copy or draft. ff. (2).
47. **Account** of moneys paid to M. Chaumont by F. Grand, *Mar. 1, 1780* to *Jan. 22, 1782*; to Jonathan Williams, *Mar. 1, 1780* to *Jan. 28, 1782*; to Messrs. Gourlarde and Moylan, *Mar. 1, 1780* to *Jan. 28, 1782*. ff. (4).
48. **Thomson**, Charles, Sec. of Congress, to Robt. Morris, Supt. of Finance, *June 29, 1781*. Copy of a private letter. Continental finance. ff. (4).
49. **Vergennes**, Charles Gravier, comte de. Versailles, *May 16, 1781*. Statement about a loan to the United States from the King. In French, with an English translation. ff. (4).
50. **Morris**, Robert. Letters to M. Grand, *Dec. 3, 1781*, on his services and accounts; and to B. Franklin, *Dec. 4, 1781*. Copies. Other memoranda. Comments of Arthur Lee. ff. (3).
51. "**Articles** pour servir de base à la négociation du rétablissement de la paix." ff. (2).
Adams's letter referring to this is dated July 13, 1781. See Sparks's Diplomatic Correspondence, vi. 102.
52. **Morris**, Robert. *June 8, 1781*. Letter to Benj. Franklin. Copy. Money granted by the French king. f. (1).
53. **Morris**, Robert. *July 14, 1781*. Extract from letter to Dr. Franklin about a Bank. Extract from letter to Jay. Comments by Arthur Lee. Morris to Robert Smith, *July 17, 1781*, (extract).
54. **Franklin**, Benjamin. *July 26, 1781*. Extracts from letter to Robert Morris. Financial matters. f. (1).
55. **Franklin**, Benjamin. *Nov. 5, 1781*, and *Jan. 28, 1782*. Extracts from letters to Robert Morris. Money for the ensuing campaign. f. (1).
56. **Morris**, Robert. Extract from a letter, probably to Franklin, 1781, about the finances and the French grant. Extract from a letter to Franklin, *Nov. 27, 1781*. Relations of France and the United States to the war. Other briefer extracts from Morris's letters. ff. (4).
57. **Morris**, Robert. *July 28, 1783*. Extract from letter, declining to incur new monetary engagements. ff. (2).
58. **Morris**, Robert. *Oct. 15, 1783*. Copy of letter to Thomas Tillotson, receiver for the State of New York. "Clamors against poor Tories." f. (1).
59. **Morris**, Robert. *Jan. 13, 1784*. Copy of letter to President of Congress. Petition of John Cooper. Adjustment of accounts of the secret committee of Congress. f. (1).
60. **Morris**, Robert. *Feb. 12, 1784*. Copy of letter to Benj. Franklin. Readiness to meet financial engagements. Funding of the debt. ff. (2).
- 61, 62, 63. **Morris**, Robert. *Feb. —*. Copy of letter to Benj. Franklin, with A. Lee's statement of its being correctly copied. Finances. Statements which could not be made in a previous letter, because copies of that were sent to Holland. Urges Franklin to activity. ff. (6). (Slightly torn.)
64. **Extracts** from letter of Robert Morris to F. Grand, *Feb. 12, 1784*; to Thomas Barclay, consul-general, *June 16, 1784*, and *Sept. 10, 1784*; from Thomas Barclay to Robert Morris, *Dec. 19, 1784*. Finances. f. (1).
65. **Luxerne**, Caesar Anne de la. Extracts from his communication to Congress on General Carleton's having communicated the determination of his court to suspend hostilities in America. f. (1).
66. **Extracts** from letters of Paul Jones —, dated Paris, *Mar. —*; of B. Franklin and J. Adams, *Feb. 10, 17—*, "which Mr. A. Lee refused to sign," addressed to Jones; of same to same, *Mar. 26, 1784*, about prisoners taken to Holland; of Franklin to Jones, *Mar. 25, 1784*; and copy of order for distributing prize money under the French laws; of Jones, Paris, — 18, 1784, to minister of marine, about his exploits and reverses; of Jones, *Aug. 13, 1786*, to the commissioners of the board of treasury. ff. (6). (Defective at the edges.)

67. **Morris**, Robert. *Mar.* 17, 1784. Copy of letter to the President of Congress. The state of his department. Comments by A. Lee. Loans and subsidies. Condition of the finances when Mr. Morris took office. Copies of letters to — Olney, receiver for Rhode Island, *March* 24, 1784; to Daniel Jenifer, intendant of Maryland, *March* 25, 1784, on bad state of finances; to Benj. Huntington, *March* 25, 1784. "Credit on the verge of dissolution." ff. (7).
68. **Barclay**, Thomas. *July* 5, 1785. Copy of letter to Robert Morris. Franklin's and Lee's accounts. ff. (2).
69. The lowest contract for clothing the troops in 1785. f. (1).
70. Estimate for governmental expenses for 1786. Memorandum. f. (1).
71. Revenue and expenditure of Great Britain for the year 1785. Memorandum. f. (1).
72. Memorandum of figures. f. (1).
73. Prices of divers [military] articles to be delivered at Hamburg. f. (1).
74. **Franklin**, Benjamin. *Aug.* 1, 1787. Copy of letter from Philadelphia, to Samuel Osgood and Arthur Lee. Accounts of Mr. Ross, agent of the United States. f. (1).
75. View of the payments and debts of the several States of the United States, 1782-87. f. (1).
- 76, 77. Return by John Bradford of merchandise delivered to him, and memoranda regarding supplies from France. ff. (8).
78. **United States**. *Board of Treasury*. *May* 17, 1787. Printed advertisement about settling accounts of secret and commercial committees of Congress. f. (1).
- 79 to 111. **Continental Congress**, *Second*. Copy of proceedings from *Sept.* 18, 1775, to *Sept.* 10, 1777, with the subsequent action of the committee, *Oct.* 5, 1778, to arrange for the settlement of their accounts. Some comments by A. Lee are interspersed. ff. (71).
112. Abstract of moneys advanced to sundry persons by the secret committee on special contracts. f. (1).
- 113, 114. **Continental Congress**, *Second*. The secret committee. Account with the Treasury of the United States. f. (1).
115. Statement of the liquidated and loan office debt of the United States to *Dec.* 31, 1787. ff. (3).
116. Loan office debt of the United States, with notes on land given to the soldiers, and State debts. ff. (2).
- 117, 118. Extracts from Swan's Political Arithmetic. ff. (2).
119. **Virginia** — *House of Delegates*. *Jan.* 17, 1788. Statement of revenues and ordinary expenditures, with remarks by J. Hopkins, law officer for Virginia, 1789, and by Arthur Lee, who adds, "This report, I understand, was drawn up by Mr. Ronald." ff. (2).
120. **Franklin**, Benjamin. *Jan.* 1, 1788. Copy of letter from Philadelphia to the commissioners of the Board of Treasury. Vouchers of Mr. Ross's accounts. f. (1).
121. **Morris**, Robert. *Aug.* 2, 1788. Copy of letter from Philadelphia to Arthur Lee. Ross's accounts and vouchers. f. (1).
122. **United States**. *Treasury*. *Register's office*. *Apr.* 1, 1789. Fragment of accounts, signed Joseph Nourse, register. f. (1).
123. State of the accounts of the secret and commercial committees, with an account of the progress made in the adjustment of them.
- Signed, "Office of Audr., May 27, 1789. Ben Walker." ff. (12).
- 124 to 140. **Lee**, Arthur. A paper in Mr. Lee's hand, some sheets missing, others defective, and as arranged according to the numeration upon them, differing from the arrangement of the same as printed in Lee's *Life of Arthur Lee*, i. 243, where it is called the "Commencement of a Memoir of the American Revolution, which Mr. Arthur Lee did not live to complete. Much of what he did write has been lost, and but a mutilated scrap can be presented." Cf. also same *Life*, i. 33. ff. (36).
- 141-163. **Brigham**, William. Copy of accounts with the United States, and list of "papers lodged with his accounts," dated between 1776 and 1787, with A. Lee's marginal comments. ff. (43).
- 164-187. **Morris**, Robert, and **Ross**, J. List of papers on their accounts, 1776- , with copies of letters, and orders of Congress, and marginal comments by Arthur Lee, and remarks by "Mr. Osgood." ff. (47).
188. **Morris**, Robert. Copy of note without date to President of Congress. f. (1).
189. **Morris**, Robert. Copy of note to Jesse Browne, without date. f. (1).
190. **Morris**, Robert. Copy of note, without date, to the receiver of Maryland. Copy of letter, *April* 29, 1784, to the President of Congress. ff. (2). (Imperfect — torn.)
191. **Morris**, Robert. Copies of notes to John Fitzgerald, Charles Thomson, and George Olney, receiver of Rhode Island, the last dated *June* 2, 1784. ff. (2). (Imperfect — torn.)
192. **Morris**, Robert. Copies of notes to [torn] and James Lovell, the last dated *July* 19, 1784. ff. (2). (Imperfect — torn.)
193. **Morris**, Robert. Copy of letter to the governor of R[hode Island?] ff. (2). (Imperfect — torn.)
194. **Morris**, Robert. Copy of letter to James Lovell, with comment by Arthur Lee. ff. (2). (Imperfect — torn.)
195. **Morris**, Robert. Copy of memorandum of accounts. f. (1).
- 196, 197. **Morris**, Robert. Copy of letter to commercial committee. Intentions of Mr. Francis, regarding his ship at Portsmouth. No date. ff. (4).
- 198, 199. **Morris**, Robert. Copy of letter to [torn], without date, with comments by Arthur Lee. ff. (4). (Imperfect — torn.)
200. Copies of papers regarding western lands. Statement of Governor of Virginia, 1754. Treaty of Lancaster, 1744. Governor of Pennsylvania's speech, 1753. Instructions of the King to Governor of Virginia, *March*, 1748-49. Land bounties to the army, 1776. Validity of charters acknowledged by various treaties, etc. Proofs of the title of Virginia. List of maps. Extracts from Mr. Wharton's copy of the Journal of the Congress at Johnson Hall, *April* 29, 1765, with speeches of Sir William Johnson, the commissioner of Virginia, the sachems, etc. Extract from the King's proclamation, *Oct.* 7, 1763. Evidences of the rights of New York to the western country. President Nelson's letter to Lord Hillsborough, *Oct.* 18, 1770. Resolve of Pennsylvania Assembly, *April* 5, 1779. List of the proprietors in the Indiana Company delivered to Congress by S. Wharton. List of Vandalia proprietors, and notes regarding the Vandalia Company. Present members of the Illinois

- and Ouabache Company. Letter of John Blair, commander-in-chief of Virginia, *June 17, 1768*, to Thomas Walker. Treaty with the Six Nations in 1764. The case of Penn and Baltimore. ff. (19).
201. **Wilson**, —. Heads of his speech in supporting Mr. Morris, when the acceptance of his resignation was moved. f. (1).
202. **Lee**, Arthur. Fragment of a letter, without date, addressed to "Edward Rutledge, Esq., Charlestown, S. Carolina." ff. (2).
203. **Lee**, Arthur. Fragment of a letter, without address or date. f. (1).
204. **Lee**, Arthur. Copy of letter, without date or address. f. (2). (Imperfect.)
205. **Lee**, Arthur. Imperfect draft of letter in his hand, without date or address. f. (2).
206. **Communications** of the French minister relating to the negotiations. Brief notes of their contents. ff. (2).
207. **Mason**, George. Imperfect copy of letter to Col. Mercer, without date. "The Rubicon is passed—reconciliation with Great Britain impossible." ff. (2).
208. **Lee**, Arthur. Memoranda in his hand, relating to affairs in Paris, during his abode there. ff. (2).
209. **Copy** of a bill concerning a writ of entry, dower *cui in vita*, and alienation by tenant by the courtesy. f. (1).
210. **Lee**, Arthur. Criticism on Mr. G. Clymer's public integrity. ff. (2).
211. **Extracts** from M. Neckar's views on finances with Arthur Lee's comments, and a statement of taxes in France. ff. (2).
212. **Thoughts** on republics, and kindred topics. A paper without title and date. ff. (2).
- 213, 214. **Extracts** from various historical works. ff. (2).
215. **Memoranda** on terms of treaty, 1783. f. (1).
216. **Members** of the Bill of Rights to the lord mayor of London. A paper of thanks. ff. (2).
- 217, 218. **Statement** about Joseph Wharton's monetary speculations on the chances of war, and Mr. Thornton's complicity. Without name or date. ff. (3).
219. **Extracts** from books. f. (1).
220. **Directions** for seeing Rome in eight days, addressed to Arthur Lee. ff. (2).
221. **Address**, beginning "My dear countryman," and signed "Monitor." Agreement of non-importation. No date. ff. (2).
222. **List** of debts due Francis Lightfoot Lee. Reasons against making Treasury notes a legal tender. ff. (2).
223. "Bill declaring that wrongful disseisin is no descent in law." f. (1).
224. **A Bill** concerning process in felony. f. (1).
225. **Lee**, Thomas, *President of Virginia*. *Sept. 29, 1750*. Extract of letter to the lords commissioners of trade. f. (1).
226. **Six** points of the enemy's barbarity and perfidy. A paper, not signed, dated or entitled, but referring to events in the early part of the Revolutionary War. f. (1).
227. **Carter v. Carter**. Case stated. ff. (2).
228. **Proposals** to the farmer-general. In French, with English comment and paraphrase. ff. (2).
229. **Réponse** au ministres du Congrès. Versailles, without date. ff. (2).
230. "Etat de la marine d'Espagne. Vaisseaux de ligne." A tabular statement of, about the year 1776. ff. (2).
231. **Exports** of Marseilles, proper for the North American markets. Addressed to Etienne Cathalan. f. (1).
232. List of F. Grand's accounts. ff. (2).
233. "Prix courant de Dragueries à Marseille." printed; filled out in manuscript. f. (1).
- 234 to 237. **Abstract** of sums due to the Register of the United States. A copy, "Sigd, Joseph Nourse, Register, F. Hardy, Acct." Comments by Arthur Lee. ff. (8).
240. **Lee**, Arthur. Fragment of a paper on John Wilkes and the Bill of Rights. f. (1). (Imperfect.)
241. **Questions** from the French court. How to engage the American commissioners not to listen to proposals from England. ff. (2).
- See Lee's Life of Arthur Lee, i. 376.
242. **Lee**, Arthur. Notes of negotiations in Holland. ff. (4). (Imperfect.)
243. **Memorandum** about Wm. Smith's land. f. (1).
244. **List** of negroes who have died at the sugar lands. *Fbh. 1, 1782*.
245. **Memorandum** on the powers of State and Congress, and the granting of northwestern lands. Comments by Arthur Lee. ff. (2). (Imperfect.)
246. **Paper** concerning the Vandalia Company and their petition to Congress. ff. (2). (Imperfect.)
247. **Memorandum** of titles. f. (1).
248. **Letter** to President of Congress. A fragment. ff. (2).
249. **Heads** of arguments against the quota of Virginia. f. (1).
250. **Notes** on the barbarity of the enemy, and on the hopes of assistance from D'Estaing's fleet. ff. (2).
251. **Notes** on the conduct of wars. f. (1).
252. **Notes** in French on rights of neutrals, *etc.* f. (1).
253. **Junius Americanus**. Fragment of a letter. f. (1).
254. **Address**, to "my lord." A fragment. "The people will not dishonor their venerated English ancestry." f. (1).
255. **Political** relations of United States and Great Britain, 1783. A paper without title, partly illegible. ff. (2).
256. **Lee**, Arthur. Statement regarding his relations with Franklin, Deane, and others in Europe. ff. (2). (Imperfect.)
- 257, 258. **Lee**, Arthur, and **Digges**, —. Printed copies of letters, *pages 65-72*, on the case of Williams and Peltiers; and letter from — Digges, *Aug. 30, 1778*, to Arthur Lee, on Thornton, Wharton, and Izard. ff. (4). (Imperfect.)

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No. 9.



THE FLORAS OF DIFFERENT COUNTRIES.

BY

GEORGE LINCOLN GOODALE,
PROFESSOR OF BOTANY IN HARVARD UNIVERSITY.

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1879.

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1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems : a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michel Angelo, with Notes.
4. JUSTIN WINSOR. *Pietas et Gratulatio*. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
- *10. JUSTIN WINSOR. Halliwelliana : a Bibliography of the Publications of James Orchard Halliwell-Phillipps.

THE FLORAS OF DIFFERENT COUNTRIES.

BY G. L. GOODALE, *Professor of Botany.*

The following list comprises the titles of the more important general and special Floras in the University Library. Of course it is impracticable to present in such a catalogue as this the names of the numerous memoirs upon Systematic Botany, published in the proceedings of Societies and in the Journals. This is simply an attempt to answer questions frequently asked respecting the systematic treatises upon the vegetation of different countries. The order is that employed in the second edition of Pritzels *Thesaurus Literaturæ Botanicae*. The volumes in Gore Hall are marked L.: those at the Herbarium are marked M. in the list

1. THE FLORA OF AFRICA.

A. SOUTH AFRICA.

LINNÆUS, *Flora Capensis*. Upsal, 1759. 8vo. 19 p. M. A thesis (by Wännman) containing a brief and very general account of the peculiarities of the South African Flora, and a list of plants from the Cape of Good Hope.

THUNBERG. 1. *Prodrromus plantarum Capensium*. Upsal, 1794. 8vo. 191 p. L.

2. *Flora Capensis*. Copenhagen, 1818-20. 8vo. 2 volumes, 578 and 352 p. M. This edition extends through the Linnæan class Hexandria.

2a. *Flora Capensis*. Stuttgart, 1828. 8vo. 803 p. M. The Herbarium copy is imperfect; the introduction by Schultes, and all the classes before Dodecandria, are wanting.

SCHLECHTENDAL. *Adumbrationes plantarum*. (Filices Capenses.) 1825. 4to. 56 p., 30 plates. M. This copy contains only the first twenty-three pages.

HARVEY. 1. *The Genera of South African Plants, arranged according to the Natural System*. Cape Town. 1838. 429 p. M. This edition contains the flowering plants, together with the Filices, Mosses, and Algae.

The second edition, revised by Dr. Hooker in 1868, is also in the Herbarium. This edition does not contain either the Mosses or the Algae.

2. *Flora Capensis*, "being a systematic description of the plants of the Cape Colony, Cafraria, and Port Natal." By Harvey and Sonder. — Vol. i. *Ranunculaceæ* to *Connaraceæ*. 1859. 8vo. 546 p. — Vol. ii. *Leguminosæ* to *Loranthaceæ*. 1861. 8vo. 621 p. — Vol. iii. *Rubiaceæ* to *Campanulaceæ*. 1864. 8vo. 633 p. M.

3. *Thesaurus Capensis, or Illustrations of the South African Flora, being Figures and Brief Descriptions of South African Plants*. — Vol. i. 1859. 8vo. 68 p. 100 plates. — Vol. ii. 1863. 8vo. 68 p., 100 plates. M.

B. WEST AFRICA.

WEBB AND BERTHELOT. *Histoire Naturelle des Isles Canaries*. T. iii. *Phytographia Canariensis*. 1838-50. 4to. 220-496, 479, 208 p. with 298 plates. M.

HOOKE, SIR W. J. *Niger Flora, or an Enumeration of the Plants of Western Tropical Africa*. Collected by Dr. Vogel in 1841; including *Spicilegia Gor-*

gonea, by Webb, and *Flora Nigritiana*, by Dr. J. D. Hooker and George Bentham, 1849. 8vo. 587 p., 52 plates. This work comprises descriptive catalogues of the plants of the Cape de Verd Islands, of the River Niger, the island of Fernando Po, and the adjacent parts of Tropical Africa. M.

LOWE. *A Manual Flora of Madeira and the Adjacent Islands of Porto Santo and the Desertas*. Vol. i., containing the *Dichlamydeæ*. 1868. 8vo. 618 p. M.

WELWITSCH. *Sertum Angolense*. 1869. 4to. From the Transactions of the Linnæan Society.

C. NORTH AFRICA.

ALPINUS. *De Plantis Aegypti Liber*. 1592. L.

MONTAGUE. *Sur la Phénomène de la Coloration des Eaux de la Mer Rouge*. 1844. 8vo. M.

WEBB. *Fragmenta Florulae Aethiopico-Aegyptiacæ*. 1854. 8vo. 72 p. M.

COSSON. 1. *Sertulum Tunetanum*. 1857. 8vo. 66 p. M.

2. *Considérations générales sur l'Algérie, étudiées surtout au point de vue de l'Acclimatation*. 1868. M.

KOTSCHY. *Plantæ Tinneanae; a Description of Plants Collected near the River Bahr-el-Ghasul*. 1867. M.

OLIVER. *Flora of Tropical Africa*. — Vol. i. *Ranunculaceæ* to *Connaraceæ*, 1868. 8vo. 479 p. — Vol. ii. *Leguminosæ* to *Ficoideæ*. 1871. 618 p. M. — Vol. iii. *Umbelliferae* to *Ebenaceæ*. 1877. 544 p. M.

BOSSIER. *Flora Orientalis. A Description of the Plants of Greece, Egypt, and the East; as far as India*. 8vo. — Vol. i. 1017 p. — ii. 1159 p. — iii. 1083. — The first fascicle of vol. iv. (280 pages). M.

D. EAST AFRICA.

DU PETIT THOUARS. *Histoire des Végétaux recueillis dans les Isles Australes d'Afrique*. 1806. 4to. 72 p. 24 plates. M.

BOJER. *Hortus Mauritianus, ou Énumération des Plantes exotiques et indigènes qui croissent à l'Île Maurice*. 1837. 8vo. 456 p. M.

BAKER. *Flora of Mauritius and the Seychelles, a Description of the Flowering Plants and the Ferns of those Islands*. 1877. 8vo. 557 p. To this Flora are added general remarks on the physical geography and botany of the islands, and the outlines of

botany, taken from Mr. Bentham's British and Colonial Floras. xl. p. H.

OLIVER. *The Botany of the Speke and Grant Expedition, an Enumeration of the Plants Collected during the Journey of the late Capt. J. H. Speke and Lieut. Col. J. A. Grant from Zanzibar to Egypt.* 1875. 4to. 190 p., 186 plates. From Trans. Linnean Society, London. H.

. In the College Library, the department of Travel contains many works upon Africa, like those of Le Vallant, Burchell, and others, in which the plants met with are briefly described.

FLORA OF AMERICA.

A. SOUTH AND CENTRAL.

MONARDES. *Simplicium medicamentorum ex novo orbe delatorum, quorum in medicina usus est, historia.*

The second Latin translation by Clusius from the Spanish. Antwerp. 1579. 12mo. 87 pp., with woodcuts. H.

PLUMIER. *Description des plantes de l'Amerique avec leurs figures.* Paris. 1693. fol. 94 p. 108 plates. H. L.

Nova plantarum Amer. genera. Paris. 1703. 4to. 52 p. (containing also *Catalogus plant. Amer. p. 21.*) H. L.

Plantarum Amer. fasciculus 1(-x). Amst. 1755-60. fol. 262 p. 262 plates. L.

SLOANE. *A voyage to the Islands of Madera, Barbadoes, Nieves, St. Christophers and Jamaica, with the Natural History of the herbs and trees, four-footed beasts, fishes, birds, insects, reptiles, &c., of the last of those islands.* London. 1725. fol. 2 vols. Introduction cliv., 264 and 499, with many plates.

JACQUIN, N. J. *Enumeratio systematica plantarum.* Nuremberg. 1762. A short list of plants found in islands of the Caribbean Sea, and tropical America. H.

Selectarum stirpium Amer. historia. Vienna. 1780. large folio. 187 p. 264 plates. A description of the rarer plants growing in Martinique, Jamaica, and Domingo. L. The earlier edition is in the Herbarium Library.

AUBLET. *Histoire des plantes de la Guiane française.* Paris. 1775. 4to. 4 vols. 892 plates. This work contains many papers of general interest, respecting the cultivation of plants in French Guiana. H.

HOUSTON, W. *Reliquiae Houstonianae*; Nuremberg. 1794. 8vo. 24 p. 15 plates. An account of the plants collected by Houston in Tropical America. H. L.

SWARTZ, Olof. *Nova Genera et Species plantarum.* Upsal. 1788. 8vo. A description of the West Indian plants collected by Swartz in 1783-7. 8vo. 152 p. H.

Observationes botanicae. Erlangen. 1791. 8vo. 424 p. H.

Icones plantarum incognitarum. Erlangen. 1794. fol., fasc. 1. 18 plates. H.

Flora Indiae occidentalis. Erlangen. 1797-1806. 3 vols. H. The three works last mentioned are devoted to the flora of the West Indies.

Adnotationes botanicae quas reliquit Olaf Swartz. Norstedt. 1829. 188 p. 4 plates. H.

This posthumous work, edited by Wikström, contains biographies of Swartz by Sprengel, and by Agardh.

RUIZ and PAVON. *Flora peruviana et chilensis Prodrum.* Madrid. 1794. folio. 153 p. 37 plates. L.

Quinologia. Madrid. 1792. 4to. 108 p. H.

A description in Spanish of the species which yield Peruvian bark. The library at Gore Hall contains several other Spanish treatises by Ruiz, upon certain medicinal plants.

VAHL. *Eclogæ americanæ.* Copenhagen. 1796-1807. Folio in three parts. Plants of tropical America.

Icones illustrationi plant. amer. 80 plates to illustrate the former work. Copenhagen. folio. 1798-9. Both of these are in the Herbarium Library.

HUMBOLDT and BONPLAND. *Essai sur la géographie des plantes.* Paris. 4to. 1805. 155 p. Relating chiefly to plants of tropical countries. L.

Plantæ equinoctiales. Paris. 1806-1818. Folio, about 200 plates. The plants of Mexico, Central America, and the northern part of South America. H.

HUMBOLDT, BONPLAND, and KUNTH. *Nova genera et species plantarum.* Paris. Folio. 7 vols. 1815-1825. L.

SAINT-HILAIRE. *Plantes usuelles des Brésiliens.* Paris, 1824, 4to 298 p. 70 plates. Of this work, the Herbarium has only the first 5 plates and the accompanying text.

POEPPIG and ENDLICHER. *Nova genera et species plantarum in regno Chilensi, Peruviano, et in terra Amazonica lectarum.* Leipsic, 1835-45, fol. 3 vols. The last volume by Poeppig alone. H.

MARTIUS VON, and ZUCCARINI. *Nova genera et species plantarum quas in itinere per Brasiliam annis 1817-20 suscepto collegit et descripsit.* Munich, 1824-32, fol.

The Herbarium copy of the 800 uncolored plates is not accompanied by the text.

2. *Herbarium Floræ Brasiliensis*, Munich, 1837. 8vo. 352 p. H.

3. *Flora Brasiliensis, sive Enumeratio plantarum in Brasilia hactenus detectarum, quas suis aliorumque botanicorum studiis descriptas et methodo naturali digestas ediderunt C. F. Philippus de Martius eoque defuncto successor Augustus Guilelmus Eichler.* Opus cura Musei C. R. Pal. Vindobonensis auctore Stephano Endlicher, successore Eduardo Fenzl conditum. Leipsic. 1840. fol. max., continued at the present time. This magnificent Flora is in great part supported by the patronage of the Emperor of Austria, the King of Bavaria, and the Emperor of Brazil. The fascicles formerly appeared at longer and more irregular intervals than at present. The last fascicles are between the numbers 70 and 80. H. and L.

BATEMAN. *The Orchidaceæ of Mexico and Guatemala.* London. 1837-43. fol. eleph. 40 colored plates.

BENTHAM. *Plantæ Hartwegianæ imprimis Mexicanæ.* London. 1839-46. 8vo. A descriptive catalogue of plants collected chiefly in Mexico, by Hartweg, together with a list of plants collected by Graham. H.

MIERS. *Illustrations of South American plants.* London. 1846-47. 4to. H.

2. *Contributions to Botany.* London. 1851-71. 8vo.

SCHMANN. *Botany of the voyage of the Herald.* London. 1852-57. 4to. (Gives a sketch of the flora of Panama, and of North West Mexico.) H.

GRISEBACH. 1. *Systematische Bemerkungen über die beiden ersten Pflanzensammlungen Philippis und Sechler's im südlichen Chili und an der Maghellans-*

Strasse. Göttingen. 1854. 50 pp., with a note by Hofmeister upon the structure of the fruit of *Lepidoceras*. **H.**

2. *Systematische Untersuchungen über die Vegetation der Karaiiben, insbesondere der Insel Guadeloupe*. Göttingen, 1857. p. 138. **H.**

3. *Erläuterungen ausgewählter Pflanzen des tropischen Amerikas*. Göttingen, 1860. p. 58. **H.**

4. *Flora of the British West India Islands*. London. 1864. 8vo.

H. In the Herbarium there are also Grisebach's notes on Wright's Cuban Plants, and his memoir on the geographical distribution of West Indian Plants.

5. *Plantas Lorentzianæ*. Göttingen, 1874. 4to. p. 231.

Professor Grisebach's account of plants collected in the Argentine Republic by Professor Lorentz of Cordova. **H.**

GRISEBACH. *Die geographische Verbreitung der Pflanzen Westindiens*. Göttingen. 1865. 4to. 80 p. **H.**

Catalogus plantarum Cubensium. Leipsic. 1866. 8vo. 301 p. **H.**

JAMESON, William. *Synopsis plantarum Æquatoriensium*. Quito. 1865. 12mo. This work contains descriptions in Latin of the West Coast plants in the orders from *Ranunculaceæ* to *Labiata* inclusive.

PICKERING, C. *Distribution of animals and plants. Containing lists of South American plants*. Salem. 1878. 4to. **H.**

In the Lowell Library at the Herbarium are the following works not enumerated in the previous list:—

BROWNE, Patrick. *The Civil and Natural History of Jamaica*. London. 1789. fol. 503 p. 50 plates.

DESCOURTILZ. *Flore pittoresque médicale des Antilles*. Paris. 1821. 8 vols. 8vo.

MACFADYEN. *The Flora of Jamaica*. London. 1837. 8vo. Vol. 1. 351 p. *Ranunculaceæ* to *Leguminosæ*.

RUIZ and PAVON. *Flora Peruviana et Chilensis*. Madrid. 1798. Vol. 1-3.

Flora Peruviana et Chilensis prodromus. Madrid. 1794. (Also at Gore Hall).

SAINT-HILAIRE. *Flora Brasiliæ Meridionalis*. Paris. 1825. 4to. Through *Myrtaceæ*.

B. NORTH AMERICA.

The arctic floras will be given separately: some references to Mexican floras have been made in the preceding section.

MONARDES. See previous section.

CORNUTI. *Canadensium plantarum aliarumque nondum editarum historia*. Paris. 1635. 4to. 288 p. **H. L.**

JOSSelyn. *New England's Rarities discovered in Birds, Beasts, Fishes, Serpents and Plants of that country*. London. 1672. The reprint, edited by Professor Edward Tuckerman, contains an interesting account of some of the early American herbalists. In the notes, Professor Tuckerman has embodied many of the earlier descriptions of the native New England plants. **H. L.**

CUTLER. *An account of some of the vegetable productions, naturally growing in this part of America, botanically arranged*. From Mem. Am. Academy, I. 396-493. 1785. 4to. **H.**

GRONOVIVS. *Flora Virginica*. Leyden. 1739-43. **H.**

A second edition, 1762, is also in **H.**

CATESBY. *Hortus Europæ americanus*, or a collection of 85 curious Trees and Shrubs, the produce of North America. London. 1767. fol. 41 p. and 7 plates containing 68 figures. **H.**

FORSTER. *Flora Americæ Septentrionalis*, or a catalogue of the plants of North America. London. 1771. 8vo. 51 p. **L.**

MARSHALL, Humphry. *Arbustum Americanum*, the American Grove, or an alphabetical catalogue of forest trees and shrubs, natives of the American United States. Philadelphia. 1785. 8vo. 174 p. **L. H.**

The French translation, edited by Lesermes, is in the Herbarium Library.

WALTER. *Flora Caroliniana*. London. 1788. 8vo. 263 p. 1 plate.

BARTRAM. *Travels through North and South Carolina, Georgia, East and West Florida, etc.*, containing an account of the soil and natural productions of those regions. Philadelphia. 1791. 8vo. 520 p. 8 plates.

MICHAUX, André. *Histoire des chênes de l'Amérique*. Paris. 1801. fol.

Flora boreali-americana. Paris. 1803. 8vo. **H. L.** In Pritzels's *Thesaurus* this work is credited to L. C. Richard, who described the species detected by Michaux.

MICHAUX, François André. *Histoire des arbres forestiers de l'Amérique Septentrionale*. Paris. 1810. 3 vol. **H. L.**

An English translation by Hillhouse was published in Philadelphia, in 1817. Of this work, entitled *The North American Sylva*, the Herbarium has a very incomplete copy. An edition published in Philadelphia in 1842, was supplemented by three volumes by Thomas Nuttall, and is generally known as Michaux and Nuttall's *North American Sylva*.

BIGELOW. *Flora Bostoniensis*. A collection of plants of Boston and its vicinity, with their generic and specific characters, principal synonyms, descriptions, places of growth and time of flowering, and occasional remarks. Boston. 1814. 8vo. 268. **H. L.** The second edition is in **L.**, the third in **L. H.**

American Medical Botany, being a collection of the native medical plants of the United States. Boston. 1819-1821.

PURSH. *Flora Americæ Septentrionalis*, or a systematic arrangement and description of the plants of North America. London. 1814. 8vo. **L. H.**

RAFINESQUE. The Herbarium has the following systematic works of this eccentric author:—

Flora Ludoviciana, or a *Flora of the State of Louisiana*. This is an annotated translation of the *Flora Louisianne* by Robin published in the third volume of his *Voyages*. New York. 1817. 8vo. 178 p.

Medical Flora; or, Manual of the Medical Botany of the United States of North America. 2 vols. Philadelphia. 1828-30. 8vo. 268-278 p. 100 plates.

Flora Telluriana. Pars secunda. Philadelphia. 1836.

Sylva Telluriana. Mantissa Synoptica. Philadelphia. 1838.

New Flora of North America. Philadelphia. 1836. Parts First, Third, and Fourth.

Autikon Botanikon. Part First. Philadelphia. 1840.

MUEHLENBERG. Descriptio uberior graminum et Calamariarum Americæ Septentrionalis. Philadelphia. 1817. 8vo. **H.**

EATON, AMOS. Manual of Botany for North America, containing generic and specific descriptions of the indigenous plants and common cultivated exotics, growing north of the Gulf of Mexico. Albany. There are several editions in the Herbarium, and at Gore Hall.

NUTTALL. The Genera of North American Plants and a catalogue of the species to the year 1817. Philadelphia. 1818. 2 vols. **H.**

BARTON. A Flora of North America. Philadelphia. 1820-8. 4to. 3 vols. 106 plates. **L.**

ELLIOT. A Sketch of the Botany of South Carolina and Georgia. Charleston. 1821-4. 2 vols. 606 p. 743 p. **H.**

TORREY. Flora of the Northern and Middle Sections of the United States. New York. 1824. 8vo. 513 p. Only one volume was published, comprising the Linnæan classes I.-XII. **H.**

And ASA GRAY. A Flora of North America, containing abridged descriptions of all the known indigenous and naturalized plants growing north of Mexico. New York. 1838-43. (*Ranunculaceæ-Compositæ*.)

TORREY. A Flora of the State of New York, comprising full descriptions of all the indigenous and naturalized plants hitherto discovered in the State, with remarks on their economical and medicinal properties. New York. 1843. In two volumes, being part second of The Natural History of New York. **L. H.**

Dr. Torrey's numerous works upon the plants of the West are to be found both at the Herbarium and at Gore Hall.

DARLINGTON. Florula Cestrica. West Chester. 1826. 152 p.

The second edition called Flora Cestrica (1837), and the third (1853), are in the Herbarium.

Agricultural Botany. Philadelphia. 1847.

HOOKE, W. J. Flora boreali-americana, or the Botany of the Northern parts of British America. London. 1833-40. 2 vol. 4to. **H. L.**

GRAY. Nearly all of Professor Gray's monographs and general treatises are both at the Herbarium, and at Gore Hall. His systematic work last published is the Synoptical Flora of North America. New York. 1878. Vol. 2. Pt. 1. "This volume commences where the Flora of North America by Torrey and Gray stopped, thirty-five years ago, namely at the close of the great order of *Compositæ*; and the present part comprises the remaining *Gamopetalæ*." **H. L.**

The first edition of Gray's Manual of the Botany of the Northern United States was published in 1848; the fifth in 1867.

DARBY. Botany of the Southern States. New York. 8vo. 1855. **H.**

CHAPMAN. Flora of the Southern United States, containing abridged descriptions of the flowering plants and ferns of Tennessee, North and South Carolina, Georgia, Alabama, Mississippi, and Florida. New York. 1860 (second edition 1865). **L. H.**

WOOD, A. A Class Book of Botany. The second part contains The Natural Orders: illustrated

by a Flora of the Northern, Middle, and Western States. Several editions have been published.

The Botanist and Florist. New York. small 8vo.

WATSON, S. Botany of the Fortieth Parallel. Washington. 1871. 4to. 525 p. This, the fifth volume of Reports of the Geological Exploration of the Fortieth Parallel, contains descriptions of the plants of Northern Nevada and Utah, in which the chief work of the Survey was conducted. It also deals with the plants of the arid western plains beyond the limits above mentioned. **L. H.**

BREWER, WATSON, GRAY. The Botany of California. Cambridge. 1876. 4to. 628 p. Vol. 1. This volume, uniform with the publications of the Geological Survey of the State of California, comprises the *Polypetalæ* by Brewer and Watson, and the *Gamopetalæ* by Asa Gray. **L. H.**

FLORA ARCTICA.

OEDER. Flora Danica. Icones plantarum sponte nascentium in regnis Daniæ et Norvegiæ. Vol. I.-XVI. with supplement. fol. 1766-1871. Lowell Library, at the Herbarium.

BROWN, Robert. Chloris Melvilliana. A list of plants collected in Melville Island (lat. 74°-75° N. long. 110°-112° W.) in the year 1820 by the officers of the Voyage of Discovery under the orders of Capt. Parry. Republished in Brown's Miscellaneous Botanical works. **H.**

ROSS. A Voyage of Discovery made under the orders of the Admiralty, in his Majesty's ships Isabella and Alexander, for the purpose of exploring Baffin's Bay, and inquiring into the probability of a Northwest passage. London. 1819. 4to. p. 252. Contains in the appendix, Brown's list of the plants collected.

RICHARDSON. Botanical Appendix to Captain Franklin's narrative of a Journey to the Shores of the Polar Sea. London. 1823. 4to. 40 p.

HOOKE, W. J. & Walker-Arnott. The Botany of Captain Beechey's Voyage, comprising an account of the plants collected by Messrs. Lay and Collie, and other officers of the Expedition during the voyage to the Pacific, and Behring's Strait, in his Majesty's ship Blossom, 1825-28. 4to. 486 p. 94 plates. **L. H.**

SEEMANN. The Botany of the Voyage of H. M. S. Herald, under the command of Capt. Henry Kellett, during the years 1845-51. London. 4to. 483 p. 100 plates.

The first part is devoted to the Flora of Western Esquimaux-land.

HOOKE, W. J. Flora boreali-Americana, in foregoing list.

HOOKE, J. D. Flora Antarctica. 1844-47. 574 p. 198 plates.

VON TRAUTVETTER, E. R. Reise in den äussersten Norden und Osten Sibiriens. von Middendorf. Vol. 1. 2d part. Sect. 1. Phanogame Pflanzen aus dem Hochnorden. Petersburg. 1847. 4to. 190 p.

VON TRAUTVETTER and MEYER. Florula Ochotensis phanogama. 188 p.

VON TRAUTVETTER. Conspectus Floræ insularum Nowaja-Semla. 8vo. 46 p.

ROTHEROCK. Flora of Alaska. Report of Smithsonian Institution for 1867.

FLORA OF ASIA.

1. SOUTHERN ASIA.

VAN RHEEDE TOT DRAAKENSTEIN. Hortus indicus malabaricus. Amsterdam. fol. 12 vol. Of these the Herbarium library has one complete copy, and an imperfect one.

BURMAN (Johannes). Thesaurus Zeylanicus. Amsterdam. 1737. 4to. 285 p. 110 plates. L.H.

RUMPF. Herbarium Amboinense. Amsterdam. 1741-55. fol. 6 vol. M. L.

ROXBURGH. Flora indica. Serampore. 1832. 8vo. 3 vols. M.

BLUME and FISCHER. Flora Javæ necnon insularum adjacentium. Brussels. 1828. fol.

BLUME. Rumphia. Leyden. 1835-46. fol. 4 vols., containing accounts of the more important plants, of economic value, growing in the islands of the Indian Archipelago.

BENNETT, J. J. Plantæ javanicæ rariores descriptæ iconibus illustratæ, quas in insula Java annis 1802-18, legit et investigavit Thomas Horsfield. London. 1838. 4to. In this are notes upon structure and affinities added by Robert Brown.

WIGHT. Icones plantarum Indiæ orientalis. Madras. 1838-61. 4to. 5 vols., with supplementary vol.

GRIFFITH. Many of the memoirs, and the posthumous papers. M.

ROYLE. 1. Essay on the productive resources of India. London. 1840. 8vo. L.

2. Illustrations of the Botany of the Himalayan mountains. fol. 2 vols. M.

HOOKE, J. D. Himalayan Journals, or Notes of a Naturalist in Bengal, the Sikkim and Nepal Himalayas, the Khasia mountains. London. 1854. 8vo. 2 vols., with maps and illustrations, pp. 408 and 487. M.

MIQUEL. Flora Indiæ Batavæ. Amsterdam. 1855-59. 8vo. 3 vols., of Latin descriptions of genera and species of Phanerogamia of the Dutch East Indies.

MIQUEL. First supplement to the foregoing work. Flora of Sumatra, with notes in the Dutch language, chiefly upon the plants of economic interest. M.

HOOKE, J. D. and THOMSON. Flora Indica. London. 1855. 8vo. Vol. I. *Ranunculaceæ* to *Fumariaceæ*. With an introductory essay. Not finished; subsequently merged in next. M.

HOOKE, J. D. The Flora of British India. London. 1875-78. 8vo. Parts I.-V. *Ranunculaceæ-Myrtaceæ*. This flora comprises descriptions of the flowering plants found in British India, Kashmir and Western Tibet.

The Outlines of Botany from Mr. Bentham's British and Colonial Floras, and an index to the terms therein contained are given in Part I. M.

. In the remainder of the list all titles which are not otherwise designated, are of works in the Herbarium

Library. Botanical notes in records of travel (see REUPPEL, NIEBUHR, BOTTA), and many general works like those of KITTO are not further spoken of in the following lists.

2. WESTERN ASIA (ASIA MINOR).

KURZ. Forest Flora of British Burma. 1877. 8vo.

FORSKAL. Flora aegyptiaco-arabica, sive descriptiones plantarum quas per Aegyptum inferiorem et Arabiam felicem detexit. Post mortem auctoris edidit Carsten Niebuhr. Copenhagen. 1775. 219 p.

CHOIZY. I. Convolvulacæ orientales, nempe indicæ, napaulenses, birmanicæ, chinenses, japonicæ, necnon et quædam australasicæ, etc. Geneva. 1834. 4to. 120 p., with plates.

II. De convolvulaceis dissertatio secunda. Geneva. 1838.

JAUBERT and SPACH. Illustrationes plantarum orientalium ou choix de plantes nouvelles ou peu connues de l'Asie occidentale. Paris. 1842-57. Copy in M. is incomplete.

FENZL. I. Pugillus plantarum novarum Syriæ et Tauri occidentalis primus. Vienna. 1842. 8vo. 18 p.

II. Illustrationes et descriptiones plantarum novarum Syriæ et Tauri occidentalis. Stuttgart. 1843. 8vo. 84 p. M. Also another copy with this title: Abbildungen und Beschreibungen neuer und seltener Thiere und Pflanzen in Syrien und in westlichen Taurus gesammelt von Theodor Kotschy. Herausgegeben von Fenzl, Heckel, und Redtenbacher. Stuttgart. 1843-49. 8vo.

BOISSIER. Flora Orientalis, sive Enumeratio plantarum in Oriente a Græciæ et Ægypto ad Indiæ fines hucusque observatarum auctore Edmond Boissier. Basel and Geneva. 1867. 8vo. Vol. 1, Thalamifloræ; Vol. 2, Calycifloræ Polypetalæ; Vol. 3, Calycifloræ Gamopetalæ; Vol. 4, part 1, Earlier orders of Corollifloræ.

PAINE. Catalogue of plants collected in Eastern Palestine. 1873. 8vo.

3. NORTHERN ASIA.

GMELIN. Flora Sibirica. St. Petersburg. 1747-69. 4to. 4 vols.

LEDEBOUR and MEYER and BUNGE. Flora Altaica. Berlin. 1829-33. 8vo. 4 vols. With Linnæan classification.

BUNGE. Supplement to this. M.

TURCHANINOW. Flora baicalensi-dahurica, seu descriptio plantarum in regionibus cis- et transbaicalensibus, atque in Dahuria sponte nascentium. Moscow. 8vo. 1842-1853.

TRAUTVETTER. Phaenogame pflanzen aus dem Hochnorden. Being part 2 of Vol. 1 of MIDDENDORFF's Sibirische Reise. St. Petersburg. 1847. 4to. In the appendix are explanations and observations concerning the plants of the Taimyr region.

TRAUTVETTER and MEYER. Florula ochotensis phaenogama. St. Petersburg. 1856. 4to. 133 p.

REGEL. I. Tentamen floræ ussuriensis, oder Versuch einer Flora des Ussuri-gebietes. St. Petersburg. 1861. 4to. 228 p. 12 plates.

II. Flora der Gebiete des Russischen reichs oestlich vom Altai bis nach Kamtschatka und dem Russischen Nord-Amerika. Moskow. 1861-1862. The Monopetale published in 1864-78 by HERDER; all based upon Radde's exploration under the auspices of the Imperial Geographical Society of Russia.

III. and HERDER. Enumeratio plantarum in regionibus cis- et transiliensibus a cl. Semenovie anno 1867 collectarum. Moskow. 1864-69. 8vo.

RUPRECHT. Flora Caucasii. Pars prima. Petersburg. 1869. 4to. IV. 802 p. 6 plates. *Ranunculaceae-Vitaceae*.

4. EASTERN ASIA.

KAEMPFER. Amoenitatum exoticarum politico-physico-medicarum fasciculi v.

The fifth fasciculus is devoted to descriptions of plants of Japan.

TRUNBERG. Flora Japonica. Leipzig. 8vo. 1784. 419 p. With an appendix containing identifications of the plants described by Kaempfer in his fifth book. M. L.

LOUREIRO. Flora cochinchinensis, sistens plantas in regno Cochinchina nascentes, quibus accedunt aliae observatae in Sinensi imperio, etc. Ulyssipoue. 1790. 4to. 2 vols. 744 p. The Herbarium has also the edition published in 1798.

SIEBOLD and ZUCCARINI. Flora Japonica, sive Plantae quas in imperio japonico collegit, descripsit, ex parte in ipsis locis pingendas curavit. Leyden. 1835. fol. 44 p.

BRANCO. Flora de Filipinas. Segun el sistema sexual de Linneo. Manila. 1837. 8vo. 887 p. Also edition II. 619 p.

SEEMAN. Botany of the voyage of the Herald. London. 1852-7. 4to. Pages 847-432 contain the Flora of the Island of Hongkong.

GRAY, ASA. I. Account of the botanical species collected in the Expedition of the American squadron to the China Seas and Japan, performed in the years 1852-54, under the command of Commodore M. C. Perry. Washington. 1856. 4to. Vol. 2. pp. 802-832.

II. Botany of the United States Expedition during the years 1838-42, under the command of Charles Wilkes, U. S. N. Phanerogamia. Philadelphia. 1854. 4to 777 p. 100 plates in folio.

BENTHAM. Flora Hongkongensis: a description of the flowering plants and ferns of the Island of Hongkong. With a map of the island. London. 1861. 8vo. To this is prefixed Mr. Bentham's "Outlines of Botany," with special reference to local floras.

MIQUEL. Prolusio Florae Japonicae. Amsterdam. 1865-67. fol.

The Herbarium Library has also Miquel's memoir upon the character and origin of the Japan Flora.

MAXIMOWICZ. Synopsis plantarum novarum Japoniae et Mandchuriae. St. Petersburg. 1866-78. 8vo.

FRANCHET and SAVATIER. Enumeratio plantarum in Japonia sponte crescentium. *Ranunculaceae-Filices*. Paris. 1875-77. 8vo.

SAVATIER. A French translation of Kwa-wi. Japanese botany. Paris. 1873. 8vo.

FLORA OF OCEANICA.

BROWN, R. I. Prodrromus Florae Novae Hollandiae et insulae Van Diemen. Vol. 1. London. 1810. 8vo. 592 p.

The Herbarium has also the wretchedly printed edition of 1821.

II. General remarks geographical and systematical on the Botany of Terra Australis. London. 1814. 4to. 81 p.

In the Herbarium Library are also the minor papers on the Flora of Australia, e.g., Botanical Appendix to Capt. Charles Sturt's Narrative of an Expedition to Central Australia.

SWEET. Flora Australasica, or a selection of handsome or curious plants, natives of New Holland, and the South Sea Islands. One volume. London. 1827-28. 8vo.

ENDLICHER. I. Prodrromus Flora Norfolkicae, a catalogue of the plants collected in Norfolk Island in 1804-05, and figured by Bauer. Vienna. 1833. 8vo.

II. Stirpium australasicarum decades tres. Vienna. 1838. 4to.

LINDLEY. Vegetation of Swan River Colony. Appendix of the index volume of Edward's Botanical Register. London. 1840. 8vo.

HOOKE, J. D. The Botany of the Antarctic voyage of H. M. discovery ships Erebus and Terror, in the years 1839-1843, under the command of Capt. Sir James Clark Ross. Comprising,

I. Flora Antarctica. Pt. 1. Botany of Lord Auckland's group, and Campbell's Island. Pt. 2. Botany of Fuegia, the Falklands, Kerguelen's Land, etc. London. 1847. 4to.

II. Flora Novae Zelandiae. Pt. 1. Flowering plants. Pt. 2. Flowerless plants. London. 1853-58. 4to.

III. Flora Tasmaniae. Vol. i. Dicotyledones. Vol. ii. Monocotyledones et Cryptogamia. London. 1853-60. 4to.

These six volumes contain about 8,000 species in all; and 530 plates, illustrating 1,095 species.

The introductory essays deal with the important questions of variation in the vegetable kingdom, and of distribution of plants in area and in time. The relations of the Australian flora to that of the nearest continent are discussed in Vol. I. of Pt. iii.

MUELLER. Fragmenta Phytographiae Australis. Melbourne. 1858-77. 8vo. 10 vols.

II. Descriptive notes on Papuan plants. Pt. 1. Melbourne. 1875. 8vo. 119 p.

III. The Vegetation of the Chatham Islands. Melbourne. 1874. 8vo. 86 p. 7 plates.

IV. Plants indigenous to the Colony of Victoria. Melbourne. 1860-68.

BENTHAM and MUELLER. Flora Australiensis. A description of the plants of the Australian territory. London. 1863-78. 7 vols. *Ranunculaceae-Filices*. To this work is prefixed Mr. Bentham's Outlines of Botany, identical with the notes accompanying his other colonial floras.

SEEMANN. Flora Vitiensis. A description of the plants of the Viti or Fiji Islands, with an account of their history, uses, and properties. London. 1865-78. 4to. 453 p. 100 plates. With a life of the author. M.

HOOKE. Handbook of the New Zealand Flora. A systematic description of the native plants of New Zealand, and the Chatham's, Kermadec's, Lord Auckland's, Campbell's, and Macquarrie's Islands. London. 1864. 8vo. 392 p. *Ranunculaceae-Lycopodiaceae*.

FLORA OF EUROPE.

The two following works deal with the plants of Europe in general.

POIRET. Histoire philosophique, littéraire, économique des plantes de l'Europe. Paris. 1826-29. 8vo. 8 vols.

NYMAN. I. Sylloge florae Europae. Orebro. 1864-66. 8vo.

II. Conspectus Florae Europaeae. *Ranunculaceae — Pomaceae*. Orebro. 1878. 8vo.

The special floras of Europe are grouped below in the order arranged by Jessen in Pritzel's Thesaurus.

SECTION I. MEDITERRANEAN.

1. SPAIN AND PORTUGAL.

LOEFLING. Reise nach den Spanischen Ländern in Europa und America in den Jahren 1751 bis 1756. Berlin. 1766. 8vo. Containing a description of many Spanish plants.

LAGASCA. Genera et species plantarum, quae aut novae sunt, aut nondum recte cognoscuntur. Madrid. 1816. 4to.

WEBB. I. Iter Hispaniense, or a Synopsis of plants collected in the southern provinces of Spain and in Portugal, with geographical remarks, and observations on rare and undescribed species. Paris. 1838. 8vo. 80 p.

II. Otia hispanica, seu Delectus plantarum rariorum per Hispanias sponte nascentium. London. 1839. fol.

BOISSIER. Elenchus plantarum novarum minusque cognitarum, quas in itinere hispanico legit. Geneva. 1838. 8vo. 94 p. Descriptions of some plants of Southern Spain.

LANG. Pugillus plantarum imprimis hispanicarum, quas in itinere 1851-52 legit Joh. Lange. i-iv. Copenhagen. 1860-65. 8vo. 399 p., with plates.

2. ITALY.

CESATI. Stirpes italicæ rariores vel novæ, descriptionibus iconibusque illustratæ. Milan. 1840. fol. 3 fascicles.

BERTOLINI. Flora italica, sistens plantas in Italia et insulis circumstantibus sponte nascentes. Bologna. 1838-54. The Herbarium has the first nine of the ten volumes, comprising all the Linnean classes except Monoecia Polygamia.

GUSONE. Floræ Siculæ synopsis. Naples. 1842-45. 3 vols. 8vo. After the Linnean system.

PARLATORE. Flora italiana, ossia Descrizione della piante che crescono spontanee e vegetano come tali in Italia e nelle isole ad essa agghiaccianti disposta secondo il metodo naturale. Florence. 1860. 4 vols. 1 part published in 1875.

CARUEL. Prodromo della Flora Toscana. Florence. 1860. 8vo. 767 p. *Ranunculaceae-Gramineae*. With Supplements I.-II.

Flora di Montecristo. Milan. 1864. A catalogue of 38 pages.

Statistica Botanica della Toscana, ossia saggio di studi sulla distribuzione geografica delle piante Toscane. Florence. 1871. 872 p.

3. GREECE AND TURKEY.

SIBTHORP. I. Floræ græcæ prodromus, sive plantarum omnium enumeratio quas in provinciis aut insulis Græciæ invenit Joh. Sibthorp. Characteres et Synonyma omnium cum adnotationibus elaboravit Jac. Ed. Smith. London. 1806-1818. 2 vols. 8vo. L. H.

II. Flora græca, sive plantarum rariorum historia, quas in provinciis aut insulis Græciæ legit, investigavit et depingi curavit Johannes Sibthorp. Hic illic etiam insertæ sunt pauculae species quas vir idem clarissimus, Græciam versus navigans, in itinere præsertim apud Italiam et Siciliam, invenit. Characteres omnium, descriptiones et synonyma elaboravit Jac. Ed. Smith. London. 1806-40. L. H.

This work was a posthumous one, executed under the provisions of the author's will. Thirty copies of the first seven volumes were printed under the editing of James Edward Smith, that being the number of the original subscribers; but death or other causes had diminished the number, so that of the last three volumes, issued under John Lindley's direction, the edition was only twenty-one copies. It would otherwise seem that the long term over which its publication extended, had occasioned some fragments of the entire work to be printed without corresponding completions, and in 1846 enough was re-issued under Henry J. Bohn's care, to render an additionally small number of copies available (perhaps not exceeding forty in all), which were now sold at sixty guineas, the original price having been £254. These later copies are exactly like the earlier in text and imprint, though perhaps inferior in the coloration of the plates. The reissued portions are distinguishable by the dates in the water-mark of the paper. The engraving of the 966 plates was all done by the noted Bauer. In both issues, the number of copies was restricted to absolute subscribers, such having been the provisions of Sibthorp's will.

The copy in the College library was bought with the money bequeathed by the late James Brown, Esq., that in the Herbarium library was the gift of John Amory Lowell, Esq. A third copy in the library of the Boston Society of Natural History was the gift of Benj. D. Green, Esq. The Massachusetts Horticultural Society, Boston, has likewise a copy. There are also copies in the Astor library and library of Congress.

For a full account of the subject see Pritzel's notice in Leipziger Repertorium (Gersdorf). 1847. v. 38. p. 258-261.

VISIANI. Stirpium dalmaticarum specimen. Padua. 1826. 4to. 57 p. 8 plates.

SECTION II. CENTRAL EUROPE.

1. FRANCE.

MAGNOL. Botanicum Monspelicense. Sive plantarum circa Monspelium nascentium index. Montpellier. 1686. 12mo. 309 p.

TOURNEFORT. Histoire des plantes, qui naissent aux environs de Paris. Paris. 1698. 12mo.

GOTAN. 1. Hortus regius Monspelienais, sistens plantas tum indigenas tum exoticas Nr. 2200, &c. Leyden. 1768. 8vo. 548 p.

II. Flora Monspelica. Leyden. 1765. 8vo. 343 p. 3 plates.

DE LAMARCK AND DE CANDOLLE. La Flore française ou description succincte de toutes les plantes,

quicroissent naturellement en France. Paris. 1806. 8d edition. 4 vols. The Herbarium has two copies.

JAUME ST-HILAIRE. Plantes de la France décrites et peintes d'après nature. Paris. 1808. 8vo. 4 vols.

DE LAMARCK and DE CANDOLLE. Synopsis plantarum in Flora gallica descriptarum. Paris. 1806.

LOISELEUR DESLONGCHAMPS. Flora gallica, seu enumeratio plantarum in Gallia sponte nascentium secundum Linnaeanum systema digestarum, addita familiarum naturalium synopsis. Liège. 1806. 8vo. 2 vols.

GODRON. Flore de Lorraine (Meurthe, Moselle, Meuse, Vosges). Nancy. 1843. 8 vols.

COSSON and GERMAIN. 1. Flore descriptive et analytique des environs de Paris, ou description des plantes qui croissent spontanément dans cette région, et de celles qui y sont généralement cultivées. Paris. 1846; also second edition, 1861.

II. Atlas de la Flore des environs de Paris. Paris. 1845. 8vo. Containing plates of the more difficult genera of the Paris Flora.

GRENIER and GODRON. Flore de France, ou description des plantes qui croissent naturellement en France et en Corse. Paris. 1847-48, but given on the title-page 1848. 8vo. 3 vols.

2. HOLLAND AND BELGIUM.

LOBELIUS. 1. Plantarum seu stirpium historia. Antwerp. 1576. 4to.

II. Icones stirpium seu plantarum tam exoticarum quam indigenarum. Antwerp. 1591.

MOLKENBOER and KERBERT. Flora Leidensis, sive Elenchus plantarum spontanearum phanerogamicarum quae hucusque prope Lugd. Batavorum repertae sunt, secundum ordines naturales digestus. Leyden. 1840.

CRÉPIN. Guide du Botaniste en Belgique (plantes vivantes et fossiles). Brussels and Paris. 1878. 12mo. 496 p.

8. GERMANY.

The libraries at the Herbarium and at Gore Hall contain many of the more rare ante-Linnaean works on descriptive botany. The copies in most cases are in excellent preservation, and complete. The following are placed by Jessen in the first section of the German Flora (veteres), but, curiously enough, no second section is made, or rather no line is drawn between the old and the new.

BRUNFELS. Herbarum vivae eicones ad naturae imitationem summa cum diligentia et arteificio effigatae, etc., per Oth. Brunfels recens editae 1530. (1532.)

BOCK. (Tragus). Kräuterbuch weilandt des Weitberhünten undt hocherfarnen Herren Hieronymi Tragi genant Bock.

Edition under the care of SEBIZIUS. 1630.

FUCHS. De historia stirpium commentarii insignes maximis impensis et vigiliis elaborati, adjectis earundem vivis plusquam quingentis imaginibus, nunquam antea ad naturae imitationem arteficiosius effectis et expressis. (Basel.) 1442. fol. 896 p. 512 plates.

2. New Kreuterbuch, in welchem nit allein die gantz histori das ist, namen, gestalt, statt und zeit der wachung, natur, kraft und würckung des meysten theyls der kreuter so in teuschen und andern landen wachsen, mit dem besten vleiss beschriben, sonder auch aller derselben wurtzel,

stengel, bletter, blumen, samen, frucht, und in summa die gantz gestalt also artlich und kunstlich abgebildet und kontrafayt ist, das dergleichen vormals nie gesehen noch an tag kommen. Basel. 1543. fol.

Nothing can give a clearer notion of the comprehensive nature of the older botanical treatises than the above title, taken literally from one of the representative works.

LOESELIIUS. Flora Prussica, sive plantae in regno Prussiae sponte nascentes. (Königsberg.) 1708. 4to. Edited by Gottsched.

Post-Linnaean works.

SCHOLLER. Flora Barbiensis. In usum seminarii fratrum. Leipsic. 1775. 8vo. 810 p.

SCHUMER. Botanisches Handbuch der mehrsten theils in Deutschland wildwachsenden theils ausländischen in Deutschland unter freiem Himmel ausdauernden Gewächse. Leipzig. 1808. 4 vols. 8vo.

MOENCH. Methodus plantas horti botanici et agri Marburgensis a. staminum situ describendi. Marburg. 1794. 8°.

ROEHLING. Deutschlands Flora, zum bequemen Gebrauche beim Botanisiren. Ed. 3. Frankfurt. 1828-39. 8vo.

STURM. Deutschland's Flora in Abbildungen nach der natur mit Beschreibungen. Nürnberg. 1798-1855.

In the Herbarium library the copy is very incomplete.

GMELIN. Flora Badensis alsatica.

SCHRADER. Flora germanica. Vol. i. Göttingen. 1806.

SPRENGEL. Flora Halensis tentamen novum. Halæ Sax. 1806. 8vo.

WAHLENBERG. Flora carpatorum principalium. Göttingen. 1814. H. L.

REICHENBACH. Flora germanica excursoria. Leipsic. 1830-33.

NEES v. ESENBECK JUN. Genera plantarum. Florae Germanicae iconibus et descriptionibus illustrata. Bonn. 1833-60. 8vo. 622 p.

A work to which, after the death of the author, Spenner, Putterlich, Schuizlein, Caspary, and Brandis have contributed.

MEYER, G. F. W. Chloris Hanoverana. Göttingen. 1836. 4to.

REICHENBACH, H. G. L. (and G. H.). Icones Florae germanicae et helveticae simul pedemontae, istriacae, dalmaticae, hungaricae, transylvanicae, borussicae, holsaticae, belgicae, hollandicae, ergo mediae Europaeae, exhibens nuperrime detectis novitiis additis, collectionem compendiosam imaginum characteristicarum omnium generum et specierum, quas in sua Flora germanica excursoria recensuit auctor. Vol. 1-22. Leipsic. 1834-70. 4to. 2,800 plates. H. L.

ZENKER and SCHEENCK. Flora von Thüringen. Jena. 1836-48.

After Zenker's death, the text was furnished partly by von Schlechtendal.

KOCH. Synopsis Florae germanicae et helveticae, exhibens stirpes phanerogamas rite cognitae, quae in Germania, Helvetia, Borussia, et Istria sponte crescunt atque in hominum usum copiosius coluntur Frankfurt. 1837.

The Herbarium library has also the 2d and 8d editions.

GODRON. *Flore de Lorraine*. Nancy. 1843-45. 8vo.

4. SWITZERLAND.

(See the following in the list of German Floras: KOCH, Synopais, and REICHENBACH, Flora, and the Icones.)

HALLER. I. *Enumeratio methodica stirpium Helvetiae*. Göttingen. 1742. fol.

II. *Historia stirpium indigenarum Helvetiae inchoata*. Berne. 1768. fol.

GAUDIN. *Agrostologia Helvetica*. Paris. 1811. 8vo.

WAHLENBERG. *De vegetatione et climate in Helvetia septentrionale*. T. 1812. 8vo.

GAUDIN. *Flora Helvetica sive historia stirpium hucusque cognitarum in Helvetia et in tractibus contiguis aut sponte nascentium aut in hominis animaliumque usus vulgo cultarum continuata*.

GODET. *Flore du Jura, ou Description des plantes vasculaires qui croissent spontanément dans le Jura suisse et français, plus spécialement dans le Jura neuchâtelois*. Neuchâtel. 1853. 8vo. 872 p.

5. AUSTRIA AND HUNGARY. (See also GERMANY.)

SCOPOLI. *Flora Carniolica, exhibens plantas Carnioliae indigenas et distributas in classes, genera, species varietates, ordine Linneano*. Vienna. 1760. 8vo. 607 p. M. L.

JACQUIN. *Flora Austriacae sive plantarum selectarum in Austriae Archiducatu sponte crescentium icones ad vivum coloratae et descriptionibus ac synonymis illustratae*. Vienna. 1773-78. 5 fol. vols.

HOST. *Synopsis plantarum in Austria provincisque adjacentibus sponte crescentium*. Vienna. 1797. 8vo. 666 p.

Flora Austriaca. Vienna. 1827-31. 8vo. 2 vols.

SECTION III. NORTHERN EUROPE.

1. GREAT BRITAIN.

[The older works in this section, and which for want of space are not here enumerated, are for the most part in the library at Gore Hall.]

GERARDE. *The Herball, or generall historie of plantes*. London. 1597. fol. 1892 p. L.

RAY. (1660-90.) The works of this author are at the Herbarium.

HUDSON. *Flora Anglica*. London. 1762. 8vo.

WITHERING. *Arrangement of all the vegetables naturally growing in Great Britain*. Birmingham. 1776. 8vo.

CURTIS. *Flora Londinensis*. London. 1777-87. fol. plates. M. L.

OWERBY (and SMITH). *English Botany, or coloured figures of British plants with their essential characters, synonyms, and places of growth, to which will be added occasional remarks by James Edward Smith and James Sowerby*. 36 vols. London. 1790-1814. 2592 plates. M. L.

The new edition by J. T. B. Syme and Mrs. Lan-
kaster is also at the Herbarium.

SMITH, (James Edward). *The English Flora*. London. 1824-36. 5 vols.

2. *A Compendium of the English Flora*. London.

HOOKE, W. J. *The British Flora*.

MACKAY. *Flora Hibernica*. Dublin. 1838. 8vo.

LEIGHTON. *A Flora of Shropshire*. London. 1841. 8vo.

BABINGTON. *Manual of British Botany*. London. 1848. 8vo.

Three editions at the Herbarium.

LOUDON. *An Encyclopedia of plants, comprising the description of the specific character, culture, history, application in the arts and every other desirable particular respecting all the plants indigenous to, cultivated in or introduced into Britain; with figures of nearly 1000 species; the specific characters by Professor Lindley; the drawings by J. D. C. Sowerby; the engravings by R. Brauston, London.*

BROMFIELD. *Flora Vectensis*. London. 1856. 8vo.

The plants of the Isle of Wight.

BENTHAM's *Outlines introductory to local Floras* can be found prefixed to his colonial Floras, and to *The Handbook of the British Flora*, a description of the flowering plants and ferns indigenous to or naturalized in the British Isles. For the use of beginners and amateurs. London. 1858. 8vo.

HOOKE, J. D. *The student's Flora of the British Islands*. London. 1870. Edition 1st and 2d. M.

2. SCANDINAVIA.

LINNÉ. *Flora Lapponica*. Amsterdam. 1757. 8o.

Flora Suecica. Stockholm. 1745.

OEDER. (*Flora Danica*). *Icones plantarum sponte nascentium in regnis Daniae et Norvegiae, in ducatibus Slesvici et Holsatiae, et in comitatibus Oldenburgi et Delmenhorstiae, ad illustrandum opus de iisdem plantis regio jussu exarandum, Florae danicae nomine inscriptum*. Vol. i.-xvi. Copenhagen. 1761-1871. fol. Containing 2,880 colored plates.

WAHLENBERG. I. *Flora Lapponica*. Berlin. 1812. 8vo.

II. *Flora Upsallensis*. Upsala. 1820. 8vo.

III. *Flora Suecica*. Upsala. 1824-6. 8vo.

FRIES. I. *Flora Hollandica*. Lund. 1817. 8vo.

II. *Novitiae Florae Suecicae*. Lund. 1823. M. L.

III. *Flora Scanica*. Upsala. 1835. 8vo.

WIKSTRÖM. *Stockholm's Flora*. I. Stockholm. 1840.

LANGE. *Haandbog i den Danske Flora*. Copenhagen. 1857. 8vo., and edition 8d.

BLYTT. *Norges Flora*. Christiania. 1861. 8vo.

SCHUEBELER. I. *Die Kulturpflanzen Norwegens*. Christiania. 1862. 4to.

2. *Synopsis of the vegetable products of Norway*. Christiania. 1862. 4to.

3. RUSSIA. (See also WESTERN ASIA.)

PALLAS. *Flora Rossica*.

LEDEBOUR. I. *Icones plantarum novarum*.

II. *Flora Rossica*. M. L.

APPENDIX.

BOTANICAL HANDBOOKS FOR TOURISTS.

The following short list comprises useful works for the determination of the flowering plants of the regions specified below. For Local Floras, and for more extensive works, consult the lists already given.

UNITED STATES.

I. NORTH.

Manual of the Botany of the Northern United States, including the district east of the Mississippi and north of North Carolina and Tennessee, arranged according to the natural system. By Asa Gray, Fisher Professor of Natural History in Harvard University. New York. 8vo.

II. SOUTH.

Flora of the Southern United States: containing abridged descriptions of the flowering plants and ferns of Tennessee, North and South Carolina, Georgia, Alabama, Mississippi, and Florida, arranged according to the natural system. By A. W. Chapman, M.D. The Ferns by Daniel C. Eaton. New York. 8vo.

The two following works contain descriptions of the plants growing east of the barren western plains, both North and South. In the second, the descriptions are much abridged:—

Class Book of Botany. By Alphonso Wood. New York. 8vo.

American Botanist and Florist. By Alphonso Wood. New York. small 8vo.

III. WEST.

Colorado.

Synopsis of the Flora of Colorado. By Thos. C. Porter and John M. Coulter. Washington. 8vo. (Miscellaneous Publications, no. 4, of Professor Hayden's Geological and Geographical Surveys of the Territories.)

Utah and Nevada.

United States Geological Exploration of the Fortieth Parallel. Clarence King, Geologist in charge. Botany by Sereno Watson, aided by Professor D. C. Eaton and others. Washington. 4to.

California.

Botany. Vol. I. Polypetalae by W. H. Brewer and Sereno Watson. Gamopetalae, by Asa Gray. Cambridge. 4to. (Uniform with the publications of the Geological Survey of California.)

THE BRITISH ISLANDS.

1. Manual of British Botany. By Charles C. Babbington, F. L. S. London. small 8vo.

2. Handbook of the British Flora; a description of the flowering plants and ferns indigenous to, or naturalized in, the British Isles. For the use of beginners and amateurs. By George Bentham, F.L.S. London. 8vo.

3. The Student's Flora of the British Islands. By Sir J. D. Hooker, Director of the Royal Gardens, Kew. London. small 8vo.

FRANCE.

Flore des Environs de Paris. By Coisson and Germain de Saint-Pierre. Paris. 8vo.

SWITZERLAND

Flore analytique de la Suisse. Vademecum du botaniste. By P. Morthier. Paris and Neuchâtel. 12mo.

GERMANY.

Synopsis florae germanicae et helveticae, exhibens stirpes phanerogamas et vasculares, cryptogamas rite cognitae, quae in Germania, Helvetia, Borussia et Istria sponte crescunt atque in hominum usum copiosius coluntur: (auctore D. Guil. Dan. Jos. Koch). Leipzig. 8vo.

Also published in the German language.

ITALY.

Prodromo della flora Toscana, di Teodoro Caruel. Florence. 8vo.

THE EAST.

Flora orientalis sive Enumeratio plantarum in oriente a Graecia et Aegypto ad Indiae fines hucusque observatarum auctore Edmund Boissier. Basle. 8vo. The parts already published extend through the order *Borraginaceae*.

From the Editor
Library of Harvard University.

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 10.



HALLIWELLIANA:

A BIBLIOGRAPHY OF THE PUBLICATIONS OF JAMES ORCHARD
HALLIWELL-PHILLIPPS.

By JUSTIN WINSOR,
LIBRARIAN OF HARVARD UNIVERSITY.

REPUBLISHED FROM THE BULLETIN OF HARVARD UNIVERSITY.

CAMBRIDGE, MASS.:
UNIVERSITY PRESS: JOHN WILSON AND SON.
1881.

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

7. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
- JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
- CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
- JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
- LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
- THE COLLECTION OF BOOKS AND AUTOGRAPHS bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillips.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
- *13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.

HALLIWELLIANA:

AN ANNOTATED LIST OF PUBLICATIONS, WRITTEN OR EDITED BY

JAMES ORCHARD HALLIWELL,

LATTERLY KNOWN AS

JAMES ORCHARD HALLIWELL-PHILLIPPS.

By JUSTIN WINSOR,

Librarian of the University.

* * The arrangement is chronological, except that second and later editions appear immediately after the entry of the first. An essential part of the work has been done by Miss ANNIE E. HUTCHINS, of the Library staff. The letters following the titles indicate that copies are in the following libraries:

HC. Harvard College Library.

BA. Boston Athenæum.

BPL. Boston Public Library.

1838.

- ✓ 1. [Halliwell-Phillipps, J. O.]. A brief account of the life, writings, and inventions of Sir Samuel Morland, master of mechanics to Charles the Second. [With an appendix.] Cambridge, etc. 1838. 8°. **HC. BA. BPL.**
- Inserted after p. 18 is "A treatise on the numeration of algorism, from a MS. of the 14th century," which afterwards formed no. 3 in Halliwell's *Rara mathematica*. 1841.

1839.

- ✓ 1. Warkworth, John. A chronicle of the first thirteen years of the reign of King Edward the Fourth. Edited, from the MS. now in the library of St. Peter's college [with notes], by J. O. Halliwell[-Phillipps]. London. 1839. 4°. (CAMDEN SOCIETY. [Publications,] 10.) **HC. BA. BPL.**
- The introduction enters into an examination of the authorities on the death of Henry VI.

- ✓ 2. Halliwell-Phillipps, J. O. A few hints to novices in manuscript literature. London. 1839. 8°. **BPL.**
- Gives list of catalogues of MSS. with notes on their scope and construction; also notices of abbreviations.

- ✓ 3. Mandeville, Sir John DE. The voiage and travaille of Sir John Maundevile, kt., which treateth of the way to Hierusalem; and of marvayles of Inde, with other ilands and countreys. Reprinted from the edition of 1725. With an introduction, additional notes, and glossary, by J. O. Halliwell [-Phillipps]. London. 1839. 8°. **HC. BA. BPL.**

Cf. Hazlitt's *Hand-book*, 368, and the references in the note to the entry of the 1725 edition in *Bulletin* no. 11. of Harvard college library, p. 279.

- ✓ 4. Halliwell-Phillipps, J. O. Two essays. i. An inquiry into the nature of the numerical contractions, found in a passage on the abacus, in some manuscripts of the geometry of Anicius Manlius Torquatus Severinus Boetius. ii. Notes on early calendars. 2d ed. London, etc. 1839. 8°. **HC. BA. BPL.**

These essays afterwards formed the appendix to Halliwell's *Rara mathematica*, 1841.

Two editions were issued the same year, the advertisements dated respectively, Feb. 12, and March 16, 1839. The second of the essays had been originally printed in Knight's *Companion to the British almanac* for 1839.

1840.

1. Halliwell-Phillipps, J. O. The connexion of Wales with the early science of England. London. 1840. 8°. **HC. BA. BPL.**
2. Halliwell-Phillipps, J. O. Catalogue of the miscellaneous manuscripts in the library of the royal society. London. 1840. 8°. **BPL.**
- A first attempt at a description of these MSS.
3. Halliwell-Phillipps, J. O. The early history of freemasonry in England. London. 1840. 12°. **HC. BPL.**

Inserted, pp. 10-38, is "A poem on the constitutions or masonry. — Hic incipunt constitutiones artis Gemetrie secundum Euclydem." This poem is printed from a MS, written in the latter part of the 14th century, probably by a priest. Mr. Halliwell believes it to be "the earliest document yet brought to light connected with the progress of freemasonry in Great Britain."

- ✓ 4. —. *The same*. 2d ed. London. 1844. 12°. **BA. BPL.**
- ✓ 5. Rishanger, Willelmus DE. The chronicle of the barons' wars. The miracles of Simon de Montfort. Edited from manuscripts in the Cottonian library [with notes], by J. O. Halli-

well[-Phillipps]. London. 1840. 4°. (CAMDEN SOCIETY. [Publications.] 15.) **HC. BA. BPL.**

The editor enumerates in his introduction the various MSS. of Rishanger known to exist, among which, no. 6 is, "De bellis Lewes et Evesham," the chronicle printed in this volume. Rishanger also touches upon the history of this period in his continuation of Matthew Paris's Chronicle. Cf. also the Rishanger Chronicle in the master of the rolls series; that of Robert of Gloucester; Sir Thomas Duffus Hardy's *Catalogue of original material*, vol. 3, and his *Syllabus of Rymer's Fœdera*.

Halliwell refers to the memoir of Montfort by the Rev. Sambrook Nicholas Russell, in Nichols's *History of Leicestershire*, and adds "a critical history of Montfort's eventful life is a desideratum in our literature." Since 1840, much has been done to correct the impressions derived from tory historians like Hume; and the higher view of him given in the *Pictorial history of England*, book IV, ch. i., now more generally obtains. Dr. Shirley, in the *London quarterly review*, Jan., 1866, gave an appreciative estimate of him, which likewise characterizes the recent lives by Pauli, the German historian, of which there is an English translation, 1876, and by Pothero, who is fuller than Pauli, and has particular reference to the parliamentary history of Montfort's time. See also Stubbs's *Constitutional history of England*, and his edition of *Select charters*, which has a valuable introduction. Blaauw's *Barons' wars* particularly elucidates the military aspects of the time; the English translation of Pauli gives, p. 150, a note on the authorities of the battle of Lewes; and Pothero gives plans of both Lewes and Evesham.

- ✓ 6. **Harrowing of hell.** A miracle play written in the reign of Edward the Second. Now first published from the original manuscript in the British museum, with an introduction, translation and notes, by J. O. Halliwell [-Phillipps]. London. 1840. 8°. **BA. BPL.**

"The earliest existing dramatic composition in the English language." The MS. is in the British museum, Harleian collection, no. 2253. Collier in 1836 printed a private edition of twenty-five copies. Laing printed the same number of copies from a more modern transcript in the Auchinleck MSS. at Edinburgh, which Halliwell has used in collation.

- ✓ 7. **Lydgate, or Lidgate, John.** A selection from [his] minor poems. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1840. 8°. (PERCY SOCIETY. Early English poetry, etc. ii. [1.]) **HC. BA. BPL.**

For an account of Lydgate see Allibone's *Crit. dict.*, 1145, 1146, and references there cited; Ritson's *Bibliog. poet.*, 66-90; Warton's *Hist. of English poetry*, Hazlitt's ed.

8. **Halliwell-Phillipps, J. O.** A catalogue of the contents of the Codex holbrookianus. London. 1840. 8°. **HC. BA. BPL.**

"100 copies only printed. Not published"
This is a MS. of John Holbrook, master of St. Peter's college, Cambridge, 1418-1431; and consists chiefly of astronomical and astrological matters.

9. **Halliwell-Phillipps, J. O.** Catalogue of manuscripts in the libraries of the university of Cambridge. Cambridge. 1840. 8°. **BA.**

- ✓ 10. **Merry tales of the wise men of Gotham.** Edited by J. O. Halliwell [-Phillipps]. London. 1840. sm. 12°. **BPL.**

The introduction determines the text to be not more modern than the first half of the 16th century.

1841.

- ✓ 1. **Halliwell-Phillipps, J. O.** The manuscript rarities of the university of Cambridge. London. 1841. 8°. **HC. BA. BPL.**

Mr. Halliwell calls them "mere rough notes of a few of the inestimable treasures in the department of manuscripts." Part i., which covers pp. 1-170, gives those of the "Public library," or as it is now usually called, "The university library." Part ii., pp. 171-175, refers to sources of information regarding MSS. in several of the college libraries. See no. 9 under 1840.

- ✓ 2. **Halliwell-Phillipps, J. O., editor.** The early naval ballads of England. London. 1841. 8°. (PERCY SOCIETY. Early English poetry, etc. ii. [2.]) **HC. BA. BPL.**

- ✓ 3. **Boke of curtasye (The),** an English poem of the fourteenth century. Edited by J. O. Halliwell [-Phillipps]. London. 1841. 8°. (PERCY SOCIETY. Early English poetry, etc. iv. [2.]) **HC. BA. BPL.**

Halliwell in his preface says that this poem is very similar in style to the poem printed by him in his *Early history of freemasonry in England*; and he is inclined to think that the two poems may be the work of the same writer. It illustrates the domestic manners of the 15th century. — See Bohn's *Louises*, appendix, 60. It is also reprinted in the publications of the *Early English text society*, no. 32.

- ✓ 4. **Meeting (The) of gallants at an ordinaire: or, The walkes in Powles.** From an unique black-letter copy in the Bodleian library. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1841. 8°. (PERCY SOCIETY. Early English poetry, etc. v. [3.]) **HC. BA. BPL.**

With a reproduction of the original title-page, 1604. — This tract, besides affording illustrations to the works of Shakespeare and contemporary writers, is of interest as giving a picture of the plague of London in 1603, and an insight into the domestic life of the inhabitants of the city during its continuance. See preface; see also Hazlitt's *Hand-book*, 218; and the *Catalogue of the Malone collection*, 15.

- ✓ 5. **Archæologist (The),** and journal of antiquarian science. Edited by J. O. Halliwell [-Phillipps]. Vol. i.; ii. no. 7-10. Sept. 1841-June, 1842. m. London. [1841]-42. 8°. **HC. BA. BPL.**

No more published. Nos. 1-6 make vol. i. Some of the articles were written by Halliwell.

- ✓ 6. **Halliwell-Phillipps, J. O., editor.** A collection of letters illustrative of the progress of science in England from the reign of Queen Elizabeth to that of Charles the Second. [With an appendix.] London. 1841. 8°. (LONDON, Eng. — *Historical society of science.* [Publications.] 1.) **HC. BA. BPL.**

These letters are mostly drawn from the collections of the British museum, Sion college, Lambeth Palace, and Oxford. The editor refers to De Morgan's paper on early English mathematical and astronomical writers in the *Companion to the British almanac* for 1837, and three articles of his own in the *Magazine of popular science* as all the earlier published contributions to the subject. The appendix contains Nathaniel Torporley's *Corrector analyticus*, or *Strictures on the artis analytica praxis of Thomas Harriot*, after the original MS. in Sion college; the *Autobiography of Sir Samuel Morland*, after a MS. in Lambeth Palace library (see no. 1 under 1838); and *A magnetical problem* by Thomas Lydyat, after a MS. in the Bodleian.

- ✓ 7. **Halliwell-Phillipps, J. O., editor.** Rara mathematica; or, A collection of treatises on the mathematics and subjects connected with them, from ancient inedited manuscripts. 2d ed. London. 1841. 8°. **HC. BPL.**

Contents: — 1. SACRO BUSTO, or BOSCO (*Eng. HOLYWOOD*). Joannes DE. Tractatus de arte numerandi. — 2. A METHOD used in England in the 15th century for taking the altitude of a steep or inaccessible object. — 3. A TREATISE on the numeration of algorism, from a MS. of the 14th century. — 4. BOURNE, William. A treatise on the properties and qualities of glasses for optical purposes, according to the making, polishing, and grinding of them. — 5. ROBINS, or ROBYNS, John. De cometis commentaria. — 6. Two tables; one shewing the time of high water at London bridge, and the other the duration of moon light. — 7. A TREATISE on the mensuration of heights and distances. — 8. AN ACCOUNT table for the use of merchants. — 9. ALEXANDRE DE VILLEDIEU (*Lat. ALEXANDER de Villa Dei*). Carmen de algorismo. — 10. MORLEY, MERLEY, or MORILEGIUS, Daniel. Prefatio ad librum de naturis superiorum et inferiorum. — 11. PROPOSALS for some inventions in the mechanical arts. — 12. The PREFACE to a calendar or almanac for the year 1430. — 13. NORFOLK, Joannes. In artem progressionis

sumula. — 14. Appendix containing i. A few observations on the numerical contractions found in some manuscripts of the treatise on geometry by Boetius. — ii. Notes on early almanacs.] The editor calls this "a new impression, rather than a new edition." The BPL. copy is dated 1839.

8. — *The same*. 2d ed. London. 1845. 8°. **BA.**

✓ 9. **Halliwell-Phillipps, J. O.** The management of Covent Garden theatre vindicated from the attacks of an anonymous critic in a letter to the editor of the Cambridge Advertiser. London. 1841. 8°. **BPL.**

Reprinted with alterations and additions. This "attack" was occasioned by some criticisms of Halliwell on theatrical matters

✓ 10. **Ludus Coventriae.** A collection of mysteries, formerly represented at Coventry on the feast of Corpus Christi. Edited by J. O. Halliwell [-Phillipps]. London. 1841. 8°. (LONDON, Eng. — *Shakespeare society*. [Publications,] 4.) **HC. BPL.**

The MS. from which this volume is printed was written in 1468, and is now preserved in the Cottonian collection of MSS. in the British museum. For an analysis and notices of these mysteries, see Collier's *Hist. of Eng. dram. poetry*, vol. ii. Halliwell adds an introduction and notes to the present work.

✓ 11. **Halliwell-Phillipps, J. O.** An introduction to Shakespeare's *Midsummer night's dream*. London. 1841. 8°. **HC. BA. BPL.**

On p. 28, begins "The Merry Puck, or Robin Goodfellow," following Collier's reprint of a unique black-letter ballad, which probably antedates the play. On p. 45 begins an account of the play's vicissitudes on the stage. On p. 88, an essay on the spelling of Shakespeare's name. The appendix covers a reprint of "The midnight watch," a curious tract on Robin Goodfellow, preserved in the British museum.

✓ 12. **Halliwell-Phillipps, J. O.** On the character of Sir John Falstaff, as originally exhibited by Shakespeare in the two parts of *King Henry IV.* London. 1841. 16°. **HC. BA. BPL.**

This essay aims to show that Shakespeare took the outline of Falstaff's character from an earlier play, and that the name was originally "Oldcastle."

Appended is a review from the *Times* on Mr. Halliwell's *Introduction to Shakespeare's Midsummer night's dream*.

✓ 13. **Halliwell-Phillipps, J. O.** *Shakesperiana*. — A catalogue of the early editions of Shakespeare's plays, and of the commentaries and other publications illustrative of his works. London. 1841. 8°. **HC. BA. BPL.**

One of the copies in the BPL. is the only one on vellum; another has MS. notes by W. E. Burton.

This volume takes its place chronologically in a series of Shakespeare bibliographies, following John Wilson's *Shakesperiana*, 1827; and in turn is followed by the article by Bohn in his edition of Lowndes's *Bibliographer's manual*, 1863; by Thimm's *Shakesperiana*, 1864; by Dr. Allibone's article in his *Crit. dict.*, 1869-72, which is confined, however, to those in the English language. To these may be added the parts of the *Catalogue* so far as published before the destruction of the Shakespeare Memorial Library at Birmingham; and the Shakespearian part of the *Catalogue of the Barton collection*, now publishing by the public library of Boston.

1842.

✓ 1. **Dee, John.** Private diary, and the catalogue of his library of manuscripts, from the original manuscripts in the Ashmolean museum at Oxford, and Trinity college library, Cambridge. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1842. 4°. (CAMDEN SOCIETY. [Publications,] 19.) **HC. BA. BPL.**

The diary is written upon the margins of old almanacs, which were discovered in the Ashmolean Museum. The catalogue is in the library of Trinity college. The collection of MSS. was long since dispersed, and the catalogue offers the only record we have of some treatises of the middle ages, no longer extant. The editor calls Disraeli's account of Dee in the *Amenities of literature*, correct and able.

✓ 2. **Halliwell-Phillipps, J. O., editor.** The nursery rhymes of England, collected principally from oral tradition. [With notes.] London. 1842. 8°. (PERCY SOCIETY. Early English poetry, etc. iv. [4.] **HC. BA. BPL.**

✓ 3. — *The same*. 2d ed., with alterations and additions. London. 1843. 12°. **HC.**

4. — *The same*. 3d ed. London. 1844. 12°. **BPL.**

✓ 5. — *The same*. 4th ed. London. 1846. 18°. **BA.**

6. — *The same*. 5th ed. London. 1853. 8°.

✓ 7. — *The same*. 6th ed. London. [1860?] sm. 8°. **HC. BPL.**

✓ 8. **Shakespeare, William.** The first sketch of Merry wives of Windsor [as printed in 1602]. Edited by J. O. Halliwell [-Phillipps]. With notes and an appendix.] London. 1842. 8°. (LONDON, Eng. — *Shakespeare society*. [Publications,] 9.) **HC. BA. BPL.**

With a reproduction of the original title-page.

The appendix contains tales which furnished Shakespeare with some of the incidents of the "Merry wives of Windsor." — 1. From Straparola's *Le tredici piacevoli notti*, 1569, i. 47; — 2. From *Il peccatore di Ser Giovanni Fiorentino*, 1640, with a translation; — 3. From *The fortunate, the deceived, and the unfortunate lovers*, 1632, being an abridged translation of the preceding; — 4. From Straparola's *Le tredici piacevoli notti*, 1569, i. 129; — 5. From Tarlton's *Newes out of Purgatorie*, 1590, which is taken from the preceding novel of Straparola; — 6. From *Westward for smelts*, 1620.

There are other reprints of this play in Halliwell's folio ed. of Shakespeare, ii. 212, and in the Cambridge ed., vol. i. It is facsimiled in the series noted under 1862-71.

Halliwell printed from the Bodleian copy. Four copies are known, — in the duke of Devonshire's collection, in the Bodleian, in the library of Trinity college, Cambridge, and that which brought £346 10s at the Daniel sale in 1864, and is now in the British museum. Halliwell has latterly entertained the view that this play does not represent a first sketch, but "an unfair and fragmentary copy of the perfect drama." There is a diversity of opinion upon this point. See Winsor's *Bibliography of Shakespeare*, p. 48.

✓ 9. **Torrent of Portugal.** *Torrent of Portugal*. An English metrical romance. Now first published from an unique manuscript of the 15th century, preserved in the Chetham library at Manchester. Edited by J. O. Halliwell [-Phillipps]. With an appendix.] London. 1842. 12°. **HC. BPL.**

According to Halliwell, this is probably a modernized version of an older English romance, which was itself translated from the French. It contains an allusion to Veland, one of the heroes of northern mythology, who is only mentioned in one other English poem (the romance of Horn). The Berkshire local tradition of Wayland Smith, which Sir Walter Scott introduces in his novel of *Kenilworth*, is derived from the Scandinavian legend of Veland. Halliwell gives the Scandinavian legend in full in his preface. See Hazlitt's *Hand-book*, 612; Warton's *Hist. of English poetry*, Hazlitt's ed., ii. 191, note.

1843.

1. **Forman, Simon.** A selection from [his] papers. Printed for the first time from the original manuscripts in the Ashmolean museum. Edited by J. O. Halliwell [-Phillipps]. London. 1843. sm. 4°. **HC.**

A MS. title-page has been supplied by the editor; in a note he writes, "Printed by the Camden Society as far as p. 40, but then suppressed, and only fifteen copies distributed exclusively to members of the Council." On the fly-leaf he has also written, "This has been reprinted, but with many omissions." The first page of text is marked in MS., "Proof for consideration." There are various marks of erasure and corrections of the press throughout. See no. 7 under 1849.

✓ 2. **[Johnson, Richard, compiler].** The pleasant conceits of old Hobson, the merry Londoner. A. D. 1607. Edited [with notes] by J. O.

Halliwell [-Phillipps]. London. 1843. 8°. (PERCY SOCIETY. Early English poetry, etc. ix. [3.]) **HC. BA. BPL.**

With a reproduction of the original title-page. This Hobson, who was a haberdasher of London, has sometimes been confounded with a Hobson who lived somewhat later, and who was a carrier and livery-stable keeper at Cambridge, and with whom originated the saying, "Hobson's choice, this or none." Hazlitt, in his *Hand-book*, 304, says, "This trashy pamphlet is a series of thefts from the *C. Mery Talys* and other sources, and has next to nothing to identify it with Hobson." See also Collier's *Bibliog. acct. of early Eng. lit.*, 211.

- ✓ 3. [Shakespeare, William]. The first sketches of the second and third parts of King Henry the Sixth [as printed in 1594 and 1595]. Edited [with an introduction and notes] by J. O. Halliwell [-Phillipps]. London. 1843. 8°. (LONDON, Eng.—*Shakespeare society*. [Publications,] 15.) **HC. BA. BPL.**

With reproductions of the original title-pages.

Containing *The first part of the contention betwixt the two famous houses of York and Lancaster, with the death of the good duke Humphrey*, etc. 1594; and *The true tragedie of Richard duke of York, and the death of good King Henrie the sixth*, etc. 1595. These are printed from unique copies, without name of author, in the Bodleian library. Cf. Winsor's *Bibliography of Shakespeare*, pp. 35, 36. The authorship is not ascertained, but Halliwell's theory is that these two plays (of 1594 and 1595) were founded on an older drama, and Robert Greene probably had a share in the work, which Shakespeare re-touched as early as 1592. Steevens had already reprinted these two plays in his *Twentieth plays*, 1766, but not upon the "rigid system" pursued by the present editor. They have since been reprinted in Knight's edition of Shakespeare, in Halliwell's folio edition, xi. pp. 81 and 122, in Delius's edition, and in the Cambridge edition, vol. v.—the latter of the two in Hazlitt's *Shakespeare's library*, 1875, vol. v., where Halliwell's introduction is reprinted. In 1610, the two plays were published, together with Shakespeare's name under the title, *The whole contention betwixt the two famous houses, Lancaster and York*, copies of which are in the Boston public library, and in other American collections. See Winsor's *Bibliography of Shakespeare*, p. 35. In 1623, the amended play as Shakespeare's *Henry VI.* first appeared in three parts, the second part of which is founded on the "First part of the contention," and the third part on the "True tragedie." See Introduction. Later references to the discussions of the authorship will be found in Winsor's *Bibliography*, p. 37.

- ✓ 4. Halliwell-Phillipps, J. O. An account of the only known manuscript of Shakespeare's plays, comprising some important variations and corrections in the Merry wives of Windsor, obtained from a play-house copy of that play recently discovered. London. 1843. 8°. **BPL.**

The **BPL.** has the only (2) copies on India paper, the only one on thick paper, the only one on vellum, beside two other copies.

This MS. was purchased by Halliwell of Thomas Rodd, the bookseller, as a transcript of the *Merry wives of Windsor*, from one of the folio editions of Shakespeare; but an examination showed it to be "a perfectly independent text,—no doubt a copy of one of the long-lost playhouse versions." Collier having publicly called it a mere transcript from the folio, Halliwell in his *New book about Shakespeare*, 1850, gave in pt. x. a complete scene, "Actus tertius, Scena prima." Cf. also Halliwell's *Some account of the antiquities*, etc. 1852, pp. 72-92.

A year later, 1844, another contemporary MS. of a Shakespearean play was discovered. Cf. "Play of King Henry the Fourth," under 1845.

1844.

- ✓ 1. Halliwell-Phillipps, J. O., editor. The Thornton romances.—The early English metrical romances of Perceval, Isumbras, Eglamour, and Degrevant. Selected from manuscripts at Lincoln and Cambridge. [With notes.] London. 1844. 4°. (CAMDEN SOCIETY. [Publications,] 30.) **HC. BA. BPL.**
- ✓ 2. Octavian. The romance of the emperor Octavian; now first published, from MSS. at Lincoln and Cambridge. Edited [with notes]

by J. O. Halliwell [-Phillipps]. London. 1844. 8°. (PERCY SOCIETY. Early English poetry, etc. xiv. [3.]) **HC. BA. BPL.**

This version of the romance is different from that printed in Weber's *Metrical romances*, iii. 155-230. For an account of the two MSS. from which this is printed see Halliwell's Introduction to the *Thornton romances*, xxvii., xlii.; see also Bohn's *Lowndes*, 1717; Warton's *Hist. of Eng. poet.*, Hazlitt's ed., ii. 31, 32, 192, 193; iii. 118.

- ✓ 3. Audelay, or Awdlay, John. Poems. A specimen of the Shropshire dialect in the 15th century. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1844. 8°. (PERCY SOCIETY. Early English poetry, etc. xiv. [1.]) **HC. BA. BPL.**

For an account of the contents of the MS. from which these poems are printed, see the *Catalogue of Douce's books and MSS. in the Bodleian library*, appendix, 50-52.

- ✓ 4. [Terllo, William, pseudon.]. Friar Bakon's prophesie: a satire on the degeneracy of the times, A. D. 1604. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1844. 8°. (PERCY SOCIETY. Early English poetry, etc. xv. [1.]) **HC. BA. BPL.**

With a reproduction of the original title-page.

This tract is reprinted from the only known copy, which formerly belonged to Robert Burton, and is now preserved in the Bodleian library at Oxford. According to Halliwell and Hazlitt, the author's name is probably fictitious. Both of these authorities agree in thinking that the tale entitled "The famous history of friar Bacon" was resorted to by the author for little else than his text "Time was, time is." It is also reprinted in Hazlitt's *Remains of the early popular poetry of England*, iv. 263-289.

- ✓ 5. Halliwell-Phillipps, J. O., editor. Nugæ poeticæ. Select pieces of old English popular poetry, illustrating the manners and arts of the fifteenth century. London. 1844. 12°. **HC. BPL.**

Contents:—1. Colyn Blowbol's testament.—2. Debate of the carpenter's tools.—3. The merchant and his son.—4. The misogynic nightingale.—5. A poem on death.—6. The maid and the magpie.—7. Elegy on Iobe, Henry VIII.'s fool.—8. A ballad on money.—9. Robert of Sicily.—10. Spiritual remedies.—11. A love song.—12. Notes.

"Only 100 copies printed."

This selection was made from MSS. preserved in the British museum, the Bodleian library, the Ashmolean museum, the library of the university of Cambridge, and the library of Lincoln cathedral.

- ✓ 6. Tarlton, Richard. Jests, and News out of purgatory: with notes, and some account of the life of Tarlton, by J. O. Halliwell [-Phillipps]. With an appendix. London. 1844. 8°. (LONDON, Eng.—*Shakespeare society*. [Publications,] 20.) **HC. BA. BPL.**

The "Jests" is a reprint of the edition of 1611, which, although it is not the first, is the earliest now known to exist; the original is a 4°, in black letter, with a woodcut portrait of Tarlton, with his drum and tabor; the present edition has a reproduction of the title and portrait; the author is unknown. The reprint has some omissions on account of the grossness of two articles in the original edition. In the introduction is inserted "Tarlton's Jigge of a horse loaded of Fooles." The appendix contains the ballad entitled, "A very lamentable and wofull discours of the fierce floods whiche lately flowed in Bedfordshire, in Lincolnshire, and in many other places, with the great losses of sheep and other cattel, the 5. of October, 1570." This ballad, according to Halliwell, "affords the earliest notice of Tarlton yet discovered;" his name is affixed, and according to Collier merely for the purpose of increasing its sale. The author of the "News out of purgatory" is also unknown, and Tarlton's name was connected with it (says Halliwell in the introduction) "as an additional attraction for the purchaser." In 1590, an answer to it appeared under the title, "The Coblur of Caunterburie," which in 1630 was republished with the title, "The Tinker of Turvey," etc. See Baker's *Biog. dram.*, i. 700-702; Collier's *Bibliog. acct. of early Eng. lit.*, 120-131; Collier's *Mem. of the princip. actors in the plays of Shakespeare*, 100, 101, 191; Hazlitt's *Hand-book*, 591; Bohn's *Lowndes*, 2573, 2574; Warton's *Hist. of English poetry*, Hazlitt's ed. iv. 395.

7. History of the morning 22nd.

1845.

- ✓ 1. **Wright, Thomas, and Halliwell-Phillipps, J. O., editors.** *Reliquiæ antiquæ. Scraps from ancient manuscripts, illustrating chiefly early English literature and the English language.* 2 vol. London. 1845. 8°. **HC. BPL.**
- ✓ 2. **D'Ewes, Sir Simonds, Bart.** *Autobiography and correspondence, during the reigns of James I. and Charles I.* Edited by J. O. Halliwell [-Phillipps]. 2 vol. London. 1845. 8°. **HC. BA. BPL.**
- ✓ 3. **Barnfield, Barnefield, or Barnefields, Richard.** *The affectionate shepherd.* A. D. 1594. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1845. 8°. (PERCY SOCIETY. Early English poetry, etc. xx. [1.]) **HC. BA. BPL.**

With a reproduction of the original title-page.

This was the author's first publication; it is reprinted from a copy preserved in the Sion college library; there is only one other copy known, which was formerly in the library of Richard Heber. *Bibliotheca heberiana*, iv. 15. The reprint contains the following items: "1. The tears of an affectionate shepherd sick for love, or The complaint of Daphnis for the love of Ganymede.—2. The second dayes lamentation of the affectionate shepherd.—3. The shepherds content, or The happiness of a harmles life. Written upon occasion of the former subject. [Followed by a sonnet].—4. The complaint of chastitie, briefly touching the cause of the death of Matilda Fitzwalters, an English ladie, sometime loved of King John, after poysoned. The storie is at large written by Michael Dreyton." In addition to the above, the original copies contain some verses entitled "Hellen's Rape: or a light Lanthorne for light Ladies. Written in English hexameters." Mr. Halliwell has omitted these in the reprint, on account of their inferiority to the other part of the work, as well as for other obvious reasons. See Allibone's *Crit. dict.*, 127; *Bibliotheca heberiana*, iv. 15; Brydges' *Censura literaria*, iv. 490-492; Collier's *Bibliot. acct. of early Eng. lit.*, i. 62, iii. 203; Ellis's *Specimens of the early Eng. poets*, ii. 356; Hazlitt's *Hand-book*, 29; Bohn's *Lounes*, 119; Ritson's *Bibliog. poet.*, 124, 125; Warton's *Hist. of Eng. poet.*, Hazlitt's ed., iv. 290, 436-440; Wood's *Athen. oxon.*, i. 683-685.

- ✓ 4. **Halliwell-Phillipps, J. O., editor.** *Poetical miscellanies from a manuscript collection of the time of James I.* [With notes.] London. 1845. 8°. (PERCY SOCIETY. Early English poetry, etc. xv. [2.]) **HC. BA. BPL.**

The MS was at this time in the possession of Andrews, a bookseller at Bristol.

- ✓ 5. **Halliwell-Phillipps, J. O., editor.** *Illustrations of the fairy mythology of A midsummer night's dream.* [With notes.] London. 1845. 8°. (LONDON, Eng.—Shakespeare society. [Publications,] 26.) **HC. BA. BPL.**

Contents: — 1. Romance of Launfal. — 2. Romance of King Orfeo. — 3. Thomas and the fairy queen. — 4. The adventures of Sir Gawen. — 5. Huon of Bourdeaux. — 6. Life of Robin Goodfellow. — 7. Ballad of Robin Goodfellow. — 8. The pranks of Puck. — 9. Rowlands on goblins. — 10. The shepherd's dream. — 11. An episode of faeries. — 12. The cozenages of the Wests. — 13. Drayton's Nymphidia. — 14. A fairy wedding. — 15. The land of faerie. — 16. Sports of the faeries. — 17. Conjurations for faeries. — 18. Fairy songs. — 19. The Wiltshire faeries. — 20. Randolph's Amyntas. — 21. Herrick's Fairy poetry. — 22. The holly bush. — 23. King Oberon's apparel. — 24. A fairy guide. — 25. Queen Mab's invitation. — 26. Heywood's Hierarchie. — 27. The midnight's watch. — 28. The faeries' farewell. — 29. Bovey on faeries. — 30. Puck's pranks on Twelfth day. — 31. Fairy tales. — 32. Fairy fragments. — 33. The white powder. — 34. The Irish faeries. — 35. The Cornish faeries. — 36. Parnell's Fairy tale. — 37. The luck of Eden hall. — 38. Tale of Man faeries. — 39. The porridge-pot. — 40. Additional notes.

- ✓ 6. **Shakespeare, William.** *Play of King Henry the Fourth, printed from a contemporary manuscript.* Edited by J. O. Halliwell [-Phillipps]. London. 1845. 8°. (LONDON, Eng.—Shakespeare society. [Publications,] 27.) **HC. BA. BPL.**

A MS. copy of *The merry wives of Windsor*, made during the time of the Commonwealth, had been supposed to be the earliest manuscript of a Shakespearian play known till the discovery of the one, followed in this book, which was made by the Rev. Lambert B. Larking among some old papers in the Muniment-room of the seat of Sir Edward Dering, Bart., of Surrenden, Oct. 23, 1844. The MS. has corrections in the hand of Sir Edward Dering, who died in 1644, and was consequently made earlier than that date. It shows the two parts of the printed play "condensed into one, and as we may presume for the purpose of representation," nearly the whole of the first part and a small portion of the second being given. Craik says that this MS. clearly follows the printed edition of 1613 of pt. i., of which the only copy, so far as known, in America is in the Lenox library, which had previously belonged to Stevens, Dent, and Dyce. It was reprinted, however, by Stevens in his *Twenty plays*, 1766, and has been fac-similed in the series of the Shakespeare quartos made by Ashbee under Halliwell's direction, enumerated under 186a-1871.

1846.

- ✓ 1. **Halliwell-Phillipps, J. O.** *A dictionary of archaic and provincial words, obsolete phrases, proverbs, and ancient customs, from the fourteenth century.* 2 vol. in 1. London. 1846. 8°. **HC. BA. BPL.**

- ✓ 2. — *The same.* 2 vol. London. 1847. 8°. **HC.**

- ✓ 3. — *The same.* 2 vol. London. 1850. 8°. **BPL.**

Halliwell embodied various previously published and independent glossaries. About 50,000 words are noted. Examples are often cited from inedited MSS. and rare books. The several editions are simply new issues from the same plates, without the author's supervision.

4. **Parker, Martin.** *Harry White, his humor so neare as may be set forth.* By M. P. [Oxford: printed by J. O. Halliwell, 1846.] 12°. **BPL.**

Mr. Halliwell printed this with his own hand, following the unique original, London, 1632. Subsequently it was inserted in the *Illustrations of the literature of the XVI. and XVII. centuries*, 1851.

- ✓ 5. **Tryamour, Sir.** *The romance of Syr Tryamour, from a manuscript preserved in the university library, Cambridge.* Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1846. 8°. (PERCY SOCIETY. Early English poetry, etc. xvi. [2.]) **HC. BA. BPL.**

This romance is printed from the earliest known MS. of it of the time of Henry VI. Another MS. is in the Bodleian library, and a third, much later, in the Percy Folio. It is reprinted in Percy's *Folio manuscript*, ed. by J. W. Hales and F. J. Furnivall, ii. 78-135; and also after an early edition printed by Copland, in *Utterson's Select pieces of early pop. poet.*, i. 1-72. For an abstract of the romance see Ellis's *Specimens of early Eng. metrical romances*, 491-505; see also Hazlitt's *Hand-book*, 616; Laneham's *Captain Cox, his ballads and books*, xxix.; Bohn's *Lounes*, 2716.

- ✓ 6. **Marriage (The) of Wit and Wisdom.** *An ancient interlude. To which are added Illustrations of Shakespeare and the early English drama.* Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1846. 8°. (LONDON, Eng.—Shakespeare society. [Publications,] 31.) **HC. BA. BPL.**

Printed from the original manuscript, found in the collection of Sir Edward Dering by Rev. L. B. Larking, with a reproduction of the original title. This interlude is referred to in an anonymous play entitled "Sir Thomas More," which has been published by the Shakespeare society, edited by Dyce. Halliwell in the introduction says, "An enthusiastic inquirer might see in this the germ of a character introduced in the 'Merry wives of Windsor.'"

The "Illustrations of Shakespeare and the early English drama" consist of the following articles: — 1. Shakespeare's *Tempest*. — 2. Curious dramatic manuscript. — 3. The marriage of the arts. — 4. Base's epitaph on Shakespeare. — 5. Supposed poems by Shakespeare. — 6. Trinculo's strange fish. — 7. Prologue and epilogue to Richard III. — 8. Ballad on Troilus and Cressida. — 9. Lenton stuff, by Elderton. — 10. Adew, my pretty pussy. — 11. Forman on Shakespeare's plays. — 12. Shakespeare's birth-place. — 13. Epitaph on Combe. — 14.

Epitaph on Shakespeare. — 15. Thomas and John Shakespeare. — 16. The young gallant's whirlingig. — 17. The diggers of Warwickshire. — 18. Seal of Sir Thomas Lucy. — 19. The property of the Shakespeares. — 20. These knights will hack.

See Collier's *Hist. of Eng. dramat. poet.*, i. 94, ii. 272, iii. 436; Halliwell's *Dict. of old Eng. plays*, 164; Hazlitt's *Hand-book*, 466.

1847.

- ✓ 1. **Arthur, King.** *Morte Arthure.* — The alliterative romance of the death of King Arthur. Now first printed from a manuscript in Lincoln cathedral. Edited by J. O. Halliwell [-Phillips]. Brixton Hill. 1847. 4°. **HC. BPL.**

"Limited to 75 copies, for private circulation only, viz. 25 on thick paper, and 50 on thin paper." Certified to by C. & J. Adlard, printers.

The editor in his preface says, "The MS. which contains the romance was transcribed about 1440 by Robert Thornton, and although he adds at the end 'writene by Robert of Thorne,' he cannot by this note be assigned as the author with any degree of certainty, but must rather be merely considered the copyist." For a full description of this MS. see Halliwell's *Thornton romances*, pp. xxv.-xxvi.

The Roxburghe club publication, no. 25, is another version of this romance.

2. **Halliwell-Phillips, J. O.** An historical sketch of the provincial dialects of England, illustrated by numerous examples. London. 1847. 8°. **BPL.**

This is extracted from the *Dictionary of archaic and provincial words*. 1846.

- ✓ 3. **Elizabeth of York, Queen of Henry VII., King of England.** The most pleasant song of Lady Bessy; and how she married King Henry the Seventh, of the house of Lancaster. Edited by J. O. Halliwell [-Phillips]. London. 1847. 8°. (PERCY SOCIETY. Early English poetry, etc. xx. [4.]) **HC. BA. BPL.**

This poem was privately printed by Thomas Heywood, esq., in 1820, following a MS. belonging to Mr. Bateman of Youlgrave, Derbyshire. Halliwell gives this version, with new collations as well as one in the Harl. MS. 367. From some passages in the poem where the writer changes abruptly from the third to the first person it has been conjectured that the author was Humphrey Brereton. It is also printed in the editor's *Palatine anthology*, 1850, pp. 1-105; Percy's *Folio manuscript*, edited by Hales and Furnivall, iii. 319-363; the copy from which this latter one was printed differs slightly from the Harl. MS. — See Halliwell's preface; Strickland's *Lives of the queens of England*, iv. 24 n.; Martin's *Bibliog. cat. of privately printed books*, 377, 378.

1848.

- ✓ 1. **Halliwell-Phillips, J. O.** Some account of the Vernon manuscript, a volume of early English poetry preserved in the Bodleian library. London. 1848. 8°. **HC.**

"Only 50 copies printed."

"The manuscript is written on vellum, and must be ascribed to the earlier part of the fourteenth century. It was presented to the Bodleian, soon after the termination of the civil wars, by Edward Vernon, esq., of Trinity college, Oxford."

- ✓ 2. **Halliwell-Phillips, J. O., editor.** Letters of the kings of England now first collected from royal archives, and other authentic sources, private as well as public, with an historical introduction and notes. 2 vol. London. 1848. 8°. **BA. BPL.**

The introduction gives the editor's views on the neglect of the study of English history in England; and on the modernizing the spelling of ancient documents. It begins with Richard Cœur de Lion, and comes down to Charles I. On p. xxxiii. he enumerates twenty-seven repositories, from which he has drawn his material.

- ✓ 3. **Halliwell-Phillips, J. O.** The life of William Shakespeare. Including many particulars respecting the poet and his family never before published. London, etc. 1848. 8°. **HC. BPL.**

This life contains a picture of the Stratford bust, fac-simile of autograph, views in Stratford, etc. and is the basis of the memoir contained in the first volume of Halliwell's folio edition of Shakespeare, where the material is very much extended, and the language mostly recast. Cf. Halliwell's *Curiosities of modern Shaksperian criticism*, p. 7. Reviewed in *Gentleman's magazine*, May, 1848.

- ✓ 4. **Ellis, George.** Specimens of early English metrical romances, to which is prefixed an historical introduction, on the rise and progress of romantic composition in France and England. A new ed., revised by J. O. Halliwell [-Phillips]. London. 1848. sm. 8°. (Bohn's antiquarian library.) **HC. BA. BPL.**

The romances chosen relate to Arthur, Merlin, the Morte Arthur, Guy of Warwick, Sir Bevis, Richard Cœur de Lion, Charlemagne, Roland and Ferragus, Sir Otuel, etc.

- ✓ 5. **[Redford, John].** The moral play of Wit and Science, and early poetical miscellanies. From an unpublished manuscript. Edited [with notes] by J. O. Halliwell [-Phillips]. London. 1848. 8°. (LONDON, Eng. — *Shakespeare society*. [Publications,] 37.) **HC. BA. BPL.**

The MS. from which these pieces are printed formerly belonged to Mr. B. H. Bright; it is now preserved in the British museum.

Contents: — 1. The play of Wit and Science, by John Redford. — 2. Fragment of an interlude, by John Redford. — 3. A poem on the grace of God. — 4. Song of ever or never. — 5. The maiden's lamentation. — 6. In praise of virtue. — 7. The sufficiency of grace, by John Heywood. — 8. Lamentation of boys learning prick-song, by John Redford. — 9. A moral version of the Hunt is up, by John Thorne. — 10. Nolo mortem peccatoris, by John Redford. — 11. Fragment of an interlude. — 12. Fair words make fools fain. — 13. Sleep compared with death. — 14. Invocation to good actions, by John Heywood. — 15. Song against idleness, by John Heywood. — 16. Long have I been a singing man, by John Redford. — 17. Give place to honest recreation. — 18. The song of exceeding measure. — 19. Song of Welcome mine own. — 20. Will and power, by John Redford. — 21. Song of a green willow, by John Heywood. — 22. The lamentation of Dido, by Thomas Pridioxe. — 23. Arise, arise, I say. — 24. The pleasure of godliness, by John Redford. — 25. The goodness of all God's gifts, by John Redford. — 26. The sinfulness of man, by John Redford. — 27. In praise of learning and virtue, by John Thorne. — 28. Be merry, friends, by John Heywood. — 29. My constancy in love, by John Heywood. — 30. O hear me, Lord, and grant mercy, by Myles Huggarde. — 31. On lawful liberty. — 32. This world is but a vanity, by John Thorne. — 33. In praise of a good welcome, by John Heywood. — 34. Against slander and slanderers, by John Heywood. — 35. Against malice and revenge, by John Heywood. — 36. Keep sure a faithful heart, by Master Knight.

See Collier's *Hist. of Eng. dramat. poet.*, ii. 342; Halliwell's *Dict. of old Eng. plays*, 273, 274; Hazlitt's *Hand-book*, 500.

- ✓ 6. **Four elements (The interlude of the):** an early moral play. Edited [with notes] by J. O. Halliwell [-Phillips]. London. 1848. 8°. (PERCY SOCIETY. Early English poetry, etc. xxii. [2.]) **HC. BA. BPL.**

With a reproduction of the original title. A reprint of the only known copy, which is in the Garrick collection of plays, in the British museum, and is imperfect. It is one of the earliest moral plays in the English language, and an attempt by the author to make the stage a vehicle of scientific instruction; the only piece of this kind extant. It contains, pp. 28, 31, an allusion to the discovery of America in the following lines: —

"Within this xx. yere
Westwarde be founde new landes,
That we never harde tell of before this
By wrytyng nor other meanyas.

"This cest parte is callyd Ynde;
But this newe landes founde lately
Ben callyd America, because only
Americus dyd furst them fynde."

The earliest known application of the name America to the New World is in Waldsee-Müller's *Cosmographia introductio*, 1507; the earliest manuscript map having it is the sketch by Leonardo da Vinci in the queen's collection at Windsor, which is given in fac-simile in the *Archæologia*, vol. 40; and the earliest engraved map showing the name appeared in Camer's edition of Solinus's *Polihistor*, 1520.

From these allusions, Dr. Dibdin and others have fixed the date of the original publication about 1510, but Collier, Halliwell, and others consider about 1517 as more probable. Some authorities attribute the authorship to John Rastell, others consider him only as the printer. See Halliwell's preface; also Beloe's *Anecd. of lit. and scarce books*, i. 337-341; Collier's *Hist. of Eng. dramat. poet.*, ii. 319-323; Dibdin's *Typog. antiq.*, iii. 105; Hazlitt's *Hand-book*, 463; Bohn's *Loumdes*, 826; Warton's *Hist. of Eng. poet.*, Hazlitt's ed. iii. 290, 291, and references there cited. It is also reprinted in Dodsley's *Select collection of old Eng. plays*, Hazlitt's ed., i. 1-50.

- ✓ 7. **Ingelend, Thomas.** The interlude of the disobedient child. Edited by J. O. Halliwell [-Phillipps]. London. 1848. 8°. (PERCY SOCIETY. Early English poetry, etc. xxii. [3.]) **HC. BA. BPL.**

The original of this interlude is a 4° in black letter without date, printed by Thomas Cotwell; Halliwell conjectures the date, however, to be about 1560. This reprint contains a reproduction of the original title-page. It is the author's only production, as far as is known. Halliwell collated two copies, differing in slight particulars, in making up the text. The first eight lines of the prologue are also found in the interlude introduced into the play of *Sir Thomas More*, printed by the Shakespeare society, p. 60. The whole interlude is reprinted from the Bridgewater copy of the original, which affords numerous corrections of the Percy society's text, in Dodsley's *Select collection of old Eng. plays*, Hazlitt's ed. ii. 265-320. — See Beloe's *Anecd. of lit. and scarce books*, i. 302; Collier's *Hist. of Eng. dramat. poet.*, ii. 360-363 (where an analysis of the interlude is given); Collier's *Extracts from the registers of the stationers' comp.*, 95; Cooper's *Athenæ cantab.*, i. 240; Halliwell's *Dict. of old Eng. plays*, 75; Hazlitt's *Hand-book*, 291; Bohn's *Loumdes*, 1160.

- ✓ 8. **[Kit of Kingston].** Westward for smelts an early collection of stories. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1848. 8°. (PERCY SOCIETY. Early English poetry, etc. xxiii. [5.]) **HC. BA. BPL.**

This is a collection of six stories related by different fish-women; viz. 1. "The fishwife's tale of Brainford. — 2. The fishwife's tale of Stand on the Greene. — 3. The fishwife's tale of Richmond. — 4. The fishwife's tale of Twinnam. — 5. The fishwife's tale of Kingstone. — 6. The fishwife's tale of Hampton." It is reprinted from a copy (1630), supposed to be unique, preserved in the library of Trinity college, Cambridge, with a reproduction of the title-page. The first tale of the fishwife of Brainford is thought by Malone to have "probably led Shakespeare to lay the scene of Falstaff's love adventures at Windsor," but Halliwell says "there seem to be no real grounds for such a conjecture." This tale is reprinted in Halliwell's appendix to his edition of *The first sketch of Shakespeare's Merry wives of Windsor*, published by the Shakespeare society, 1842, pp. 135-141. The tale of the fishwife of Stand on the Greene, says Halliwell in a note, "is borrowed from Boccaccio, whose novel is employed by Shakespeare in *Cymbeline*." See Arber's *Transcript of the registers of the comp. of stationers of London*, iii. 309; Hazlitt's *Hand-book*, 649; Bohn's *Loumdes*, 2883.

- ✓ 9. **Halliwell-Phillipps, J. O.** Descriptive notices of popular English histories. London. 1848. 8°. (PERCY SOCIETY. Early English poetry, etc. xxiii. [3.]) **HC. BA. BPL.**

Most of the pieces here described were printed chiefly between 1720 and 1780. As far as no. 115, this work is the same as the author's *Catalogue of chap-books, garlands, and popular histories*, 1849.

1849.

1. **Halliwell-Phillipps, J. O.** Notices of the history and antiquities of Islip, Oxfordshire, the birthplace of Edward the Confessor. London. 1849. 8°. **HC.**

"Only 50 copies printed."

"This paper consists of a few notes; a connected history has not been attempted."

- ✓ 2. **Halliwell-Phillipps, J. O., editor.** Popular rhymes and nursery tales: a sequel to the nursery rhymes of England. London. 1849. 12°. **HC. BPL.**

The editor says he has followed the plan of Robert Chambers in his *Popular rhymes of Scotland*, and that the two books will eventually contain nearly all that is worth preserving of what may be called the natural literature of Great Britain. A copy with MS. notes and collections for a new edition was advertised in Halliwell's 1857 sale, and withdrawn.

- ✓ 3. **Halliwell-Phillipps, J. O.** Some account of the popular tracts formerly in the library of Captain Cox, A. D. 1575. London. 1849. 8°. **HC.**

Captain Cox was of Coventry, and figures in Scott's *Kenilworth* as the director of the pageant of Hoch Tide. Halliwell adds notices of the several pieces, and gives the enumeration of the tracts in Cox's library from an account by Laneham, clerk of the council-chamber door, who introduces the list in his description of Queen Elizabeth's entertainment at Kenilworth.

- ✓ 4. **Halliwell-Phillipps, J. O.** A catalogue of chap-books, garlands, and popular histories, in the possession of J. O. Halliwell. London. 1849. sm. 8°. **HC. BA.**

"For private circulation."

The frontispiece is a picture of a Horn-book, of about 1570. "I regret to say," writes the author, "that this black-letter hornbook, after passing muster for years amongst experienced judges, turned out to be a remarkably clever forgery." "The collection here described consists almost exclusively of copies which appeared during the last century, many of them having the same woodcuts which were used for the original black-letter editions." It furnishes "a distinct idea of what was, till within the last half century, the household literature of the illiterate." See no. 9 under 1849.

- ✓ 5. **Halliwell-Phillipps, J. O.** Notices of fugitive tracts, and chap-books printed at Aldermay churchyard, Bow churchyard, etc. London. 1849. 8°. (PERCY SOCIETY. Early English poetry, etc. xxix. [1.]) **HC. BA. BPL.**

This is a description of tracts selected from a large collection of such pieces in the possession of the compiler. It is an exact reprint of a portion of the preceding work (pp. 95-190), *A catalogue of chap-books, garlands, and popular histories*.

- ✓ 6. **Grosseteste, or Grosthead (Lat. Capito), Robert, Bp. of Lincoln.** The castle of love. A poem. Now first printed from inedited manuscripts of the fourteenth century. Edited by J. O. Halliwell [-Phillipps]. Brixton Hill. 1849. 4°. **HC. BPL.**

"Strictly limited to 100 copies, printed for private circulation only, viz. 10 copies on thick paper, and 90 copies on thin paper." Certified to by C. & J. Adlard, printers.

See Hazlitt's *Hand-book*, 245; Warton's *Hist. of English poetry*, Hazlitt's ed., ii. 89-93.

- ✓ 7. **Forman, Dr. Simon, the celebrated astrologer.** Autobiography and personal diary. 1552-1602. From the unpublished manuscripts in the Ashmolean museum, Oxford. Edited by J. O. Halliwell [-Phillipps]. London. 1849. 4°. **BA. BPL.**

"Only one hundred and five copies printed, five on thick and the remainder on ordinary paper."

"For private circulation only."

Cf. W. H. Black's *Catalogue of the Ashmolean manuscripts*, col. 169. See no. 1 under 1843 and no. 2 under 1853.

- ✓ 8. **[Halliwell-Phillipps, J. O., editor].** Contributions to early English literature derived chiefly from rare books and ancient inedited manuscripts, from the fifteenth to the seventeenth century. London. 1849. 4°. **HC.**

The title-page is partially illuminated.

"The impression has been strictly limited to 75 copies, printed for private circulation, viz., 25 copies on thick paper, and 50 on ordinary paper." Certified to by Thomas Richards, the printer.

This collection contains the following numbers, each having a separate title:—

✓ I. TAYLOR, John. The suddaine turne of fortune's wheele, a poem. 1848. **HC.**

With a reproduction of the original title-page, 1631. For authorities favoring Taylor's claim to the authorship of this poem, see Allibone's *Crit. dict.*, 2355; Griffith's *Bib. anglo-poet.*, 349; Bohn's *Louvdes*, 2595; Watt's *Bib. brit.*, ii. 897. For authority disclaiming his authorship, see Hazlitt's *Hand-book*, 604, where he says "it was the work of some author whose name has not transpired, and was merely completed by Taylor;" he then quotes the "Advertisement to the reader" prefixed to the poem.

✓ II. KATHERINE of Alexandria, Saint. Life of St. Katherine.—KNYGHTE (The) and his wyfe.—An account of the magical manuscript of Dr. Caius. 1848. **HC.**

The Life of St. Katherine is printed from a MS. of the 15th century preserved in the university library, Cambridge. For a description of the MS. see Halliwell's *MS. rarities of the univ. of Cambridge*, 148, 149; his Introduction to the *Thornion romances*, published by the Camden society, 1844; *Catalogue of the MS. in the univ. of Cambridge*, 404-408. The Tale of the knight and his wife is for the first time printed from a MS. collection, of the same period, known as the Poringkington MS.; it was afterwards reprinted in Hazlitt's *Remains of the early pop. poet. of Eng.*, ii. 16-20. In the account of the MS. of Dr. Caius (who was the founder of Caius college), Halliwell has added some observations on the character of that name introduced into the *Merry wives of Windsor*.

For the Poringkington MS. see no. 2 under 1855.

✓ III. SMYTH (The) and his dame.—BOOKE (The) of Robin Conscience. 1848. **HC.**

Both of these are reprinted from the unique black-letter tract in the Bodleian library, with reproductions of the original title-pages. "The tale of the Smyth and his dame" is also reprinted in Hazlitt's *Remains of the early pop. poet. of England*, iii. 200-220, where, in the preface, the editor says this tale "is a remarkable specimen of the manner in which the miraculous attributes of our Lord were adapted by the framers of mediæval tales to current superstitions"; see also Brydges' *Brit. bibliog.*, i. 63. "The booke of Robin Conscience" is a poetical dialogue in two parts of Robin Conscience against his father Covetousnesse, his mother Newgise and his sister Proud Beautie; the original copy of which this is a reprint was printed by Edward Alde without date; it is imperfect at the beginning and has two blank leaves after sig. A iii. recto. It was afterwards reprinted in Hazlitt's *Remains of the early pop. poet. of Eng.*, iii. 221-247; in this reprint the editor has given all the marginal notes, which were omitted in Halliwell's reprint, and has collated the Bodleian copy used by Halliwell with a more ancient edition, cir. 1550, in the collection of the duke of Devonshire; this edition was unknown to Halliwell at the time of his reprint and, although it also is imperfect at the beginning, yet it supplies four out of the five stanzas missing in the Bodleian copy. In 1635, Martin Parker published a work with a similar title to the above, but it has no connection with this poem. See Baker's *Biog. dramat.*, iii. 214; Brydges' *Brit. bibliog.*, i. 65, ii. 547; Collier's *Hist. of Eng. dramat. poet.*, ii. 402-407; Halliwell's *Dict. of old Eng. plays*, 213; Hazlitt's *Hand-book*, 119; Bohn's *Louvdes*, 2107.

✓ IV. HUGH, Sir, of Lincoln. Ballads and poems respecting Hugh of Lincoln, a boy alleged to have been murdered by the Jews in the year MCCLV. 1849. **HC.**

Warton in his *Hist. of Eng. poet.*, Hazlitt's ed., iii. 102, says "Everything known relative to St. Hugh has been collected . . . by M. Francisque Michel." See this author's *Hugues de Lincoln*, 1834; see also Child's *Eng. and Scottish ballads*, iii. 136-146. It is also the story of Chaucer's *Prioresse's tale*.

✓ V. BAND, Ruffe, and Cuffe, a costume shew.—HERBERT, Thomas. Newes out of Islington.—DERBYSHIRE mummer's play (A). 1849. **HC.**

With reproductions of the original title-pages. The first piece "Band, Ruffe, and Cuffe" is an illustration of the history of costume, and is a satire on the enormous ruffs worn at the commencement of the seventeenth century; it is reprinted from the second edition of the original, printed in 1615, with the following title: "Exchange ware at the second hand, viz. Band, Ruffe, and Cuffe, lately out, and now newly dearned up. Or, A dialogue, acted in a shew in the famous Universitie of Cambridge. The second Edition." The first edition of this piece, printed in the same year, was entitled, "A

Merry Dialogue between Band, Cuffe, and Ruffe; done by an excellent Wit," etc. This edition does not contain the two preliminary verses. It is reprinted in *The Harleian miscellany*, x. 204-209, with the addition of the prologue "from a MS. copy, said to have been acted at Oxford, Feb. 24, 1646." The readings of that MS. have been mostly adopted in this reprint. Halliwell's reprint, besides the omission of the prologue, varies from this.—See Baker's *Biog. dramat.*, ii. 208; Griffith's *Bib. anglo-poet.*, 98; Halliwell's *Dict. of old Eng. plays*, 26; Hazlitt's *Hand-book*, 124; Bohn's *Louvdes*, 769. The "Newes out of Islington" is reprinted from a copy of the original edition, 1641, which is very rare and is considered unique. See *Bib. heberiana*, viii. 57; Hazlitt's *Hand-book*, 265; Bohn's *Louvdes*, 1049. The third piece is, according to Halliwell's preface, "a copy of a Christmas play performed by the mummers of Derbyshire, obtained from oral tradition in that county."

✓ VI. INTERLUDE (The) of youth; from the rare black-letter edition printed by Waley about 1554. 1849. **HC.**

Halliwell says this "is probably the most interesting early-printed moral play that has descended to our times; it is very rare, only two or three copies of any edition being known to exist." It is also reprinted in Dodsley's *Select collection of old Eng. plays*, ed. by Hazlitt, ii. 1-40. See Baker's *Biog. dramat.*, ii. 328; Beloe's *Anecd. of lit. and scarce books*, i. 349; Cat. of Douce's books and MSS. in the Bodleian lib., 144; Collier's *Extracts from the regist. of the stationers' comp.*, i. 2, 32; Collier's *Hist. of Eng. dramat. poet.*, ii. 312-315; Halliwell's *Dict. of old Eng. plays*, 280; Hazlitt's *Hand-book*, 464; Laneham's *Capt. Cox, his ballads and books*, edited by Furnivall for the *Ballad soc.*, cxviii, cxix; Bohn's *Louvdes*, 3033.

✓ 9. MAN in the moone (The); or, The English fortune teller. From the unique copy, printed in 1609, preserved in the Bodleian library. Edited [with notes] by J. O. Halliwell [-Phillipps]. London. 1849. 8°. (PERCY SOCIETY. Early English poetry, etc. xxix. [2].) **HC. BA. BPL.**

With a reproduction of the original title-page. The dedication to M. Thomas Smith, of Clarendonwell, and the advertisement to the reader, are subscribed with the initials "W. M." See Arber's *Transcript of the registers of the comp. of stationers of London*, iii. 190^b; Brydges' *Brit. bibliog.*, ii. 85-90.

1850.

✓ 1. SIMROCK, Karl (Joseph). Remarks on the plots of Shakespeare's plays. With notes and additions by J. O. Halliwell [-Phillipps]. London. 1850. 8°. (LONDON, Eng.—Shakespeare society. [Publications,] 43.) **HC. BA. BPL.**

The translation from the German "was made by a competent person under the direction of the council of the Shakespeare society."

The editor speaks of this work as forming an appropriate supplement to the collection of the original tales used by Shakespeare mostly translations, which was issued by J. P. Collier in 1842, as *Shakespeare's library*, since re-edited by W. C. Hazlitt. The Germans had issued a similar collection, at Berlin, in 1831, for which Echtermeyer, Henschel, and Simrock had made the translations, and it is from that book that these essays of Simrock are taken.

✓ 2. Halliwell-Phillipps, J. O., editor. A new boke about Shakspeare and Stratford-on-Avon. London. 1850. 4°. **HC. BPL.**

The **BPL.** has copies on ordinary, on thin, and on thick paper.

"The impression is strictly limited to 75 copies, printed for private circulation; namely, 50 copies on ordinary paper, and 25 copies on very thick paper." Certified to by Thomas Richards, printer.

Contents:—1. Fragment of the early English poem of Apollonius of Tyre (illustrating Pericles) from an early manuscript.—2. Documents respecting the Ardens of Wilmecote, Shakespeare's maternal ancestors.—3. The ballad of The northern lord, illustrating the Merchant of Venice and Cymbeline.—4. List of the attendances of Shakespeare's father at the meetings of the Stratford corporation.—5. The royal courtly garland, illustrating the Winter's tale.—6. The documents at Dulwich college which notice Shakespeare, with fac-similes.—7. An inedited document mentioning Shakespeare as the purchaser of a book.—8. Documents relating to Shakespeare's three aunts.—9. Washington Irving's paper on Stratford-on-

Avon reprinted with notes and illustrations. — 10. Extract from an early manuscript of the Merry wives of Windsor. Cf. note under *An account of the only house MS.*, etc. 1843. — 11. Old wooden bridge near Anne Hathaway's cottage, with a woodcut. — 12. Shakespearean relic, with woodcuts. — 13. Shakespeare's will. Cf. *The Probate copy of Shakespeare's will*, 1872. With a fac-simile of Shakespeare's marriage bond.

- ✓ 3. **Halliwel-Phillipps, J. O., editor.** Palatine anthology; a collection of ancient poems and ballads, relating to Lancashire and Cheshire. London. 1850. 4°. **HC. BPL.**

"The impression has been strictly limited to 110 copies printed for private circulation only." Certified to by C. & J. Adlard, printers.

Containing among others the "Song of Lady Bessy," etc. about which see the note under *ELIZABETH of York*, 1847.

- ✓ 4. [**Halliwel-Phillipps, J. O., editor.**] Palatine garland: being a selection of ballads and fragments, supplementary to the Palatine anthology. London. 1850. 4°. **HC. BPL.**

This is appended to the *Palatine anthology*, with separate pagination, having been originally intended for a separate work.

- ✓ 5. **Trial of treasure** (The interlude of the), reprinted from the black-letter edition by Thomas Purfoote, 1567. Edited by J. O. Halliwel [-Phillipps]. London. 1850. 8°. (PERCY SOCIETY. Early English poetry, etc. xxviii. [4.]) **HC. BA. BPL.**

With a reproduction of the original title-page. There is a copy of this interlude in the British museum which contains several variations and superior readings to the one from which this is printed, and which once belonged to Stevens. The "various readings and corrections" are appended in this reprint. See preface, where it is thought that there were two impressions of the book the same year. It is also reprinted in Dodsley's *Select collection of old Eng. plays*, Hazlitt's ed., iii. 257-301 where the variations have all been adopted. See Collier's *Hist. of Eng. dramat. poet.*, ii. 330-332; Halliwel's *Dict. of old Eng. plays*, 251; Bohn's *Lowndes*, 2710.

- ✓ 6. [**Walker, Gilbert.**] A manifest detection of the most vile and detestable use of dice play. Edited [with notes] by J. O. Halliwel [-Phillipps]. London. 1850. 8°. (PERCY SOCIETY. Early English poetry, etc. xxix. [3.]) **HC. BA. BPL.**

In the preface, Halliwel says "this tract contains a remarkably vivid description of the tricks in vogue amongst the gamblers of the sixteenth century, and the accounts of false dice are peculiarly valuable, as comprising fuller explanations of terms used by Shakespeare, and other old dramatists, than are to be found in the notes of the commentators. The mysteries of gourds and fullams, high men and low men, stumbling-blocks to many intelligent readers of the works of the Stratford poet, are here satisfactorily explained." The authority for Gilbert Walker's authorship is a MS. note on Heber's copy (one of two known) which formerly belonged to Topham Beauclerk, from which the present is a reprint; the reprint was, however, not made from the copy itself, but from a transcript in which the orthography is modernized. It contains a reproduction of the title-page of the original edition, which was printed by Abraham Vele, without date. See Ames's *Typog. antiq.*, ii. 778; Hazlitt's *Hand-book*, 639; Bohn's *Lowndes*, 2811.

- ✓ 7. **Loyal garland** (The): a collection of songs of the seventeenth century, reprinted from a blackletter copy supposed to be unique. Edited by J. O. Halliwel [-Phillipps]. London. 1850. 8°. (PERCY SOCIETY. Early English poetry, etc. xxix. [4.]) **HC. BA. BPL.**

With a reproduction of the original title-page. Beside Halliwel's own copy used in this reprint, the editor knew of but one other, and that imperfect, in the Douce collection at Oxford. The original from which this is reprinted contains eighty-three songs and ballads; in the reprint eleven have been omitted *causa pudoris*. See Beloe's *Anecd. of lit. and scarce books*, vi. 90-98; Fry's *Bibliog. mem.*, 73; Griffith's *Bib. anglo-poet.*, 107; Halliwel's *Cat. of chap-books, garlands*, etc. 106-108; Hazlitt's *Hand-book*, 219; Bohn's *Lowndes*, 864.

- ✓ 8. **Shakespeare, William.** The complete works, revised from the original editions, with histor-

ical introductions, and notes explanatory and critical; a life of the poet, and an introductory essay on his phraseology and metre. By J. O. Halliwel and other eminent commentators. 4 vol. London, J. Tallis and co. [1850-53.] 8°. **BPL.**

Called by the publishers, *Tallis's Library edition*. Henry Tyrrell furnished the life and some of the introductions, and edited the doubtful plays, which make the fourth volume.

Halliwel speaks of it as a "pirated cheap edition," and disclaimed all responsibility for it. Cf. *London Times*, October, 1850. It was published in parts, beginning November, 1850, following an American edition, which was discontinued, because of this piracy. See the edition of the *Comedies*, given under 1854.

1851.

- ✓ 1. **Halliwel-Phillipps, J. O., editor.** The Yorkshire anthology, a collection of ancient and modern ballads, poems and songs, relating to the county of Yorkshire. London. 1851. 4°. **HC. BPL.**

"Strictly limited to 110 copies, printed for private circulation only." Certified to by C. and J. Adlard, printers.

This volume includes among other reprints, *The praise of Yorkshire ale*, York, 1697; *A Yorkshire dialogue in its pure natural dialect*, York, 1697, followed by a collection of proverbs, and "an alphabetical clavis unfolding the meaning of the Yorkshire words"; *The history of Mother Shipton*, etc.

- ✓ 2. **Halliwel-Phillipps, J. O., editor.** Shakespeare's will, copied from the original in the Prerogative court, preserving the interlineations, and facsimiles of the three autographs of the poet. With a few preliminary observations. London. 1851. 4°. **BPL.**

This was made originally by Thomas Rodd, the bookseller, and in type as the "authorities of the Prerogative court steadfastly refused to allow a facsimile to be made." Discovering some errors in it, Rodd suppressed the work. Halliwel, having secured the sheets, issued them in this form, in a hundred copies, pointing out the errors in a prefatory note. See no. 1 under 1872.

- ✓ 3. **Halliwel-Phillipps, J. O., editor.** The literature of the sixteenth and seventeenth centuries, illustrated by reprints of very rare tracts. London. 1851. 4°. **BPL.**

"75 copies printed."

Gives reproductions of title-pages, but has one pagination throughout. It contains the following reprints:—

- ✓ I. **HARRY WHITE**, his humour, set forth by M. P.

One copy known, in the Bodleian. Previously printed by Halliwel at Oxford. See no. 4 under 1846.

II. COMEDY of the Two Italian gentlemen.

Printed late in 1584 or early in 1585. Cf. Collier's *Extracts*, 193, and his *Hist. of Eng. dramat. poet.*, iii. 241. Only two copies known. Collier attributes it to Anthony Munday, on the strength of "A. M." signed to the dedication in one of the copies.

III. TAYLOR's Travels from London to the isle of Wight. 1648.

By the water-poet, containing valuable notices of Charles I., and perhaps suppressed for political reasons. The copy used was Dyce's afterwards, and is probably now in the Kensington museum.

IV. WILL BUCK, his Testament.

Original in the Bodleian,—reprinted also in a small edition by Haalewood.

V. THE BOOK of merrie riddles. 1629.

"There can be scarcely a doubt that it is a later impression of the book lent by Master Slender to Alice Shortcake." Facsimiles of the titles of 1629 and 1631 are given.

VI. COMEDY of All for money. 1578.

Described by Collier in his *Hist. of Eng. dramat. poet.*, ii. 347.

VII. WINE, beer, ale, and tobacco. 1630.

The editor had not been able to find a modern reprint, of which he had heard.

VIII. JOHNSON, Thomas. Johnson's new book of new conceits. 1630.

The editor knows of only one copy.

IX. LOVE'S garland. 1626.

The editor thinks the original is unique. An imperfect copy of a later edition, 1674, passed from Heber's collection into Utterson's. Cf. *Bib. heberiana*, iv. 1743, for a list of such merriments.

1852.

- ✓ 1. Halliwell-Phillips, J. O., editor. The Norfolk anthology.—A collection of poems, ballads, and rare tracts relating to the county of Norfolk. Brixton Hill. 1852. 4°. HC. BPL.

"Strictly limited to 80 copies, printed for private circulation only." Certified to by C. & J. Adlard, printers. Contains the Norfolk drolery, etc.—See Bohn's *Louder*, 1701.

- ✓ 2. Halliwell-Phillips, J. O. A few remarks on the emendation "Who smothers her with painting" in the play of Cymbeline. Discovered by Mr. Collier, in a corrected copy of the second edition of Shakespeare. London. 1852. 8°. BPL.

Mr. Collier replied to this in the addenda to his *Notes and emendations*.

- ✓ 3. Halliwell-Phillips, J. O. Some account of the antiquities, coins, manuscripts, rare books, ancient documents, and other reliques, illustrative of the life and works of Shakespeare, in [his] possession. Brixton Hill. 1852. 4°. BPL.

"Printed for private circulation only." "Limited to 80 copies." Certified to by Thomas Richards, the printer.

"The formation of the collection has occupied my earnest attention for several years, and I believe scarcely any article of real importance to the series, which has occurred in the market, has escaped my notice."

Contains an account of the only MS. of any of Shakespeare's writings written in the 16th century; also of the early transcript of the *Merry wives of Windsor*, and a play-house copy of *Twelfth night*.

- ✓ 4. Halliwell-Phillips, J. O., compiler. Some account of a collection of several thousand bills, accounts, and inventories, illustrating the history of prices between 1650 and 1750.—Presented to the Smithsonian institution, Washington. Brixton Hill. 1852. 4°. HC. BA.

"Strictly limited to 80 copies, printed for private circulation only." Certified to by C. and J. Adlard, printers.

This collection was formed in aid of a projected work on the history of prices, and the design being abandoned, the collector presented it in Oct., 1852, to the Smithsonian institution, believing that the people of the United States were "most likely to produce a writer on the history of commerce." It includes about 7,000 documents, bound in 54 volumes, and it contains what could not be yielded by the treasures of any library in the world, with the exception of those in the British Museum. This gift is mentioned in the *Seventh annual report* of the Smithsonian institution, pp. 34, 95.

The catalogue of the 1857 sale of Halliwell shows a large collection of household and privy purse accounts, 1601-1619, which brought £3 9s.

1853.

- ✓ 1. Halliwell-Phillips, J. O., editor. The poetry of witchcraft illustrated by copies of the plays on the Lancashire witches by Heywood, [Broome] and Shadwell. Brixton Hill. 1853. 4°. HC. BPL.

"Strictly limited to 80 copies, printed for private circulation only."

Contents:—1. SHADWELL, Thomas. The Lancashire witches and Tegue o Divilly the Irish priest. A comedy acted at the Duke's theater. 1682.—2. Heywood, Thomas, and Broome, Richard. The late Lancashire witches. A well-received comedy, lately acted at the Globe, on the *Bankside*, by the king's majesties actors. 1634.

With reproductions of the original title-pages. See Allibone's *Crit. dict.*, 840, 2004, 2005 and references there cited; Halliwell's *Dict. of old Eng. plays*, 140.

- ✓ 2. Halliwell-Phillips, J. O., editor. A brief description of the ancient and modern manuscripts preserved in the public library, Plymouth: to which are added, Some fragments of early literature hitherto unpublished. London. 1853. 4°. HC. BPL.

"Strictly limited to 80 copies, printed for private circulation only." Certified to by C. & J. Adlard, printers.

The MSS. here described were presented by Mr. Halliwell to the library named.

Fragments of early literature:—FORMAN, SIMON. Extracts from his metrical autobiography. Cf. no. 7 under 1849.—SHIRLEY, James? The general; a tragedy-comedy. Attributed to James Shirley.—BRETON, Nicholas. An unpublished poem.—MOTHER SHIPTON's prophecy. Cf. *Yorkshire anthology*, under 1851.—LOVE's victories, an unpublished drama of the seventeenth century, extracts from.

- ✓ 3. Shakespeare society's papers. London. 1853. 8°. HC. BA. BPL.

Halliwell contributed to this volume the following short papers:—

Similarity of a passage in Marlowe's *Edward II.* and one in the *First part of the contention*.

Observations on the correct method of punctuating "Too too," in *Hamlet*.

On the word "Ducdame" in *As you like it*.

Note on the recently discovered manuscript of *Henry the Sixth*.

Early notice of Shakespeare's *Henry the Eighth*.

Some notes on passages in Shakespeare.

A poem, containing notice of Jonson, Shakespeare, etc.

Popular tracts in the library of Captain Cox, 1575. See no. 3 under 1849, and also "Captain Cox, his ballads and books" in the *Ballad society's reprints*.

Extract from a manuscript of Oxford, regarding Dethick, the herald who made the grant of arms to John Shakespeare.

Observations on *A Midsummer night's dream*.

Dispute between the earl of Worcester's players and the corporation of Leicester, 1586.

- ✓ 4. Shakespeare, William. Works, the text formed from a new collation of the early editions: to which are added all the original novels and tales on which the plays are founded; copious archaeological annotations on each play; an essay on the formation of the text; and a life of the poet. By J. O. Halliwell. The illustrations and wood-engravings by Frederick William Fairholt. 16 vol. London. 1853-65. 8°. BPL.

Halliwell had the previous year issued a *Prospectus of a new edition of Shakespeare, in twenty folio volumes, corresponding in size with the convenient first collective edition of 1623, to suit numerous fac-similes to be made from that work* (1852. BPL.), accompanied by a list of subscribers up to that time. Other lists were inserted in each volume as issued.

Each of the first nine volumes contains a certificate from Allard, the printer, that the edition was strictly limited to 150 copies, with an additional one for the editor. In the subsequent volumes a printed statement to the same effect without autograph signature is substituted.

The work contains 133 plates, fac-similes of manuscripts, titles, and other pages of the quartos, etc., and numerous cuts.

The editor in his *List of works printed at the expense of J. O. Halliwell*, 1867, offers copies in which the plates are on plain paper at £105, and those on India paper, of which there were twenty-five printed, at £150. Copies that he had repurchased from original subscribers he offered respectively for £75 and £100. He gives at that time (Jan. 4, 1867) the names of 122 owners of copies as far as known to him, and of these 22 were in the United States. He then had 28 copies in his possession.

Quaritch advertises a copy with India paper plates, the present year, for £95. *Catalogue*, 322, no. 13568.

The copies in public libraries in the United States so far as known, are in the Boston public library; Lenox library, New York; Astor library, New York.

The first volume, beside the general preface, contains the Life and the Essay on the text. Of this life, at a later period, when Halliwell was devoting himself exclusively to further illustrations of the subject, he said: "When in 1853, I had printed the life of Shakespeare, I was goose enough to fancy that I had then exhausted the subject."

The following reprints of the early quartos and other original sources are contained in the several vols. :—

II. *Merry wives of Windsor*, 1602. Cf. note under 1862-1871.

III. Straparola's *Tredici piacevoli notti*. Halliwell's copies of his editions of 1569 and 1578 were sold at his 1856 sale.

III. George Whetstone's *Promos and Cassandra*. Also given in Nichols's *Six old plays*, with some important faulty variations, and in Hazlitt's *Shakespeare's library*, vi. Cf. Collier's *Dram. poetry*, iii. 64, and his *Shakespeare's library* for the 1582 prose *Promos and Cassandra*.

III. W. W[arner's] *Menaechmi, out of Plautus, written in English*. Also reprinted in Nichols's *Six old plays*, and Hazlitt's *Shakespeare's library*, v.

VI. Thomas Lodge's *Rosalynde, Euphues golden legacie*. Also in Collier's *Shakespeare's library*, i.

VI. *Taming of a shrew*, 1594. This earliest edition was also printed by the Shakespeare society, edited by Thomas Amoyt, in 1844, collated with the editions of 1596 and 1607; again in Hazlitt's *Shakespeare's library*. It also forms one of the volumes of Ashbee's *Dramatic fac-similes*. The only known copy of the original is in the duke of Devonshire's collection. Winsor's *Shakespeare bibliography*, p. 67. The 1607 edition was followed in Nichols's *Six old plays*.

VIII. Robert Green's *Dorastus and Fawnia*. Halliwell's copy of the 1644 edition was sold in his 1857 sale for £1 6s. Cf. note under no. 7, of 1859.

VIII. *The troublesome raigne of John, King of England*, 1611. Capell's copy, in Trinity college library, Cambridge, is the only copy known of the earlier edition of 1591, which is reprinted in Hazlitt's *Shakespeare's library*, v. Other reprints of the 1611 edition are in *Miscellaneous pieces of ancient English poetry*, 1764; in Stevens's *Twenty plays*, 1766; in Nichols's *Six old plays*, 1779. A copy of the 1611 original, once belonging to Halliwell, is now in the Boston public library. Stevens's copy of the same became George the Third's, and is now in the British museum, as are also Garrick's and Grenville's. A copy of a later edition, 1622, is also in the Boston public library. Halliwell's copy of this last edition was sold in 1857 for £17 10s. to Sir William Tite, brought £7 10s. in 1874 at the Tite sale, and is now held by Quaritch at £10. It has Stevens's autograph.

XI. *The first part of the Contention of the two famous houses of York and Lancaster*. Cf. the note to Halliwell's separate reprint under 1843, and to his sale catalogue, 1856, etc.

XI. *The true tragedie of Richard duke of York*. Cf. note to Halliwell's separate reprint under 1843, and to his sale catalogue, 1856, etc.

XII. Brooke's *Romans and Juliet*, 1562. Other reprints in Collier's *Shakespeare's library*, ii., following Malone's copy now in the Bodleian; also in Malone's *Supplement to Shakespeare's works*, x., "with glaring and important errors," says Collier; in Boswell's ed. of Malone's *Shakespeare*, vi.; in Johnson's and Stevens's edition of *Shakespeare*, supplement; in Isaac Reed's 1785 edition, x; his 1803 ed., xx; the American reprint, 1809, xii; his 1813 ed.; and in Hazlitt's *Shakespeare's library*, i. P. A. Daniel edited it for the New Shakespeare society in 1875.

XIII. *Romans and Julietta*. An English prose version of Boisteau's French rendering printed in the 1567 ed. of Paynter's *Palace of pleasure*, ii.—a second edition of which appeared probably 1575-80. Other reprints of Paynter's version were made by J. Haslewood in 1813; who in turn was followed by Collier in his *Shakespeare's library*, and again as above, by Halliwell. The New Shakespeare society reprinted it in 1875, following the second, no date, edition, collated with the first.

XIV. *Historie of Hamblet translated from the French of F. de Belleforest*, 1608. Cf. Furness's *Hamlet*, ii. Reprints in Collier's *Shakespeare's library*, i., and Hazlitt's ed. of the same, ii.

See Colburn's *New monthly*, April, 1873, for an article by Halliwell on Shakespeare's sources of Hamlet.

Halliwell prints *Titus Andronicus* and *Henry VI.* in small type as indicating his doubt of Shakespeare's authorship.

- ✓ 5. Halliwell-Phillips, J. O. Curiosities of modern Shakesperian criticism. London. 1853. 80. **HC. BPL.**

This is a reply to an attack on Halliwell's folio edition of Shakespeare, made by the *Athenaeum*, July 2, 1853. In it, p. 20, he examines the Bridgewater MSS., as presented by Collier, and reaches the conclusion, after an inspection of the papers, that they are "modern forgeries."

- ✓ 6. Halliwell-Phillips, J. O. Observations on the Shakesperian forgeries at Bridgewater House;

illustrative of a fac-simile of the spurious letter of H. S. London. 1853. 40. **BPL.**

"For private circulation only. Twenty-five copies printed." Halliwell expresses his "firm conviction that all the Shakesperian manuscripts at Bridgewater House are modern forgeries."

This **BPL.** copy has inserted in it a copy of the fac-simile without heading, and printed on old paper.

7. Halliwell-Phillips, J. O. Observations on some of the manuscript emendations of the text of Shakespeare, and are they copyright? London. 1853. 80. **HC. BPL.**

This is upon the emendations—rejecting them—brought forward by Mr. Collier, as found in his annotated folio of 1632. Cf. an antagonistic notice in *Athenaeum*, London, July, 1853, p. 916.

1854.

- ✓ 1. Halliwell-Phillips, J. O. A garland of Shakesperiana, recently added to his library and museum, at Avenue Lodge. Brixton Hill. 1854. 40. **BPL.**

"For private circulation only. Twenty-five copies printed." Includes sixteen items of Shakesperian curiosities, examples of the Ireland forgery, etc.

2. Halliwell-Phillips, J. O. A brief notice of the *Mirror of government*, both ecclesiastical and civil. Printed at London in the year 1658, for the use and benefit of Thomas Gibbs, Gent. London. 1854. 80.

- ✓ 3. Halliwell-Phillips, J. O. Brief account of the theological manuscripts in [his] library. London. 1854. 40. **BPL.**

"Twenty-five copies printed."

- ✓ 4. Halliwell-Phillips, J. O. Brief account of an unique edition of Sydney's *Arcadia*. London. 1854. 40.

"Twenty-five copies printed." Other copies of the original have since been discovered. Quaritch held two copies, 1879, at £6 10s. and £14 respectively.

- ✓ 5. Halliwell-Phillips, J. O. Descriptive notices of works in a small collection of Sydneian literature in [his] library. London. 1854. 40.

"Twenty-five copies printed."

- ✓ 6. Halliwell-Phillips, J. O., editor. Ancient inventories of furniture, pictures, tapestry, plate, &c., illustrative of the domestic manners of the English in the sixteenth and seventeenth centuries, selected from inedited manuscripts. London. 1854. 40.

"Twenty-five copies printed."

Includes an inventory of the plate, household stuff, pictures, &c., in Kenilworth castle, taken after the death of Robert, earl of Leicester, 1588.

7. Halliwell-Phillips, J. O. Brief observations on some ancient systems of notation. London. 1854. 40.

"Ten copies printed."

8. Shakespeare, William. Comedies. Edited, with introduction and notes, critical and explanatory, by J. O. Halliwell [-Phillips]. Reprinted from the American ed. London. 1854. 80. **BPL.**

"Printed for private circulation only."

The editor in a prefatory note says that the publication of this work was begun in numbers in New York; and the first number was also published in October, 1850, by Vickers in London, the

latter unauthorized, as seen by a correspondence in the *Times* of that date. After the comedies and a few of the histories were printed, the English reprint was discontinued. Halliwell obtained twenty copies of the comedies, and put the present title and preface to them. See note to Tallis's edition, 1850.

1855.

- ✓ 1. **Halliwell-Phillipps, J. O.** Brief notices of bibliographical rarities, in [his] library. London. 1855. 4°. **HC.**

"Limited to twenty-five copies." Certified to by J. O. Halliwell. "Printed for private circulation only."

"Notices of books entirely in English or relating to English literature of such great rarity, that the majority of them will be unknown, and nearly all inaccessible to the most experienced bibliographers. Of the 45 enumerated, upwards of 20 are believed to be absolutely unique."

- ✓ 2. **Halliwell-Phillipps, J. O., editor.** Early English miscellanies, in prose and verse, selected from an inedited manuscript of the fifteenth century. London. 1855. sm. 8°. (WARTON CLUB. [Publications], 2.) **HC. BPL.**

Containing ten selections from the "Porkington manuscript," viz.—"A treatise on planting and grafting;" "The craft of lymnyng of bokys;" "Vision of Philibert regarding the body and the soul;" "The friar and the boy," etc.

From this same MS. Sir Frederic Madden printed, in 1839, the story of Syre Gawene and the carle of Carelyle in his collection of the romance poems of Syr Gawayne. Some of the shorter pieces, not here printed, had appeared in the *Reliquiae antiquae* and in other places. Another version of "The friar and the boy" was printed by Wright in 1836, following the MS. Cantab. Ec. iv. 35. See second title of no. 8 under 1849.

1856.

- ✓ 1. **Halliwell-Phillipps, J. O.** A lyttle boke givinge a true and briefe accounte of some reliques and curiosities added of late to Mr. Halliwell's Shakespeare collection. London. 1856. 4°. **BPL.**

"Limited to twenty-five copies," attested by J. E. Allard, printer.

Has fac-simile of title and one page of "Bookes of merrie riddles," 1617.

Gives an account of the betrothal ring called Shakespeare's, asserting the absence of proof of its genuineness as a relic of the poet; and another account of the vicissitudes of fragments of the Shakespeare mulberry tree.

2. **Halliwell-Phillipps, J. O.** Catalogue of a unique collection of ancient English broadside ballads, with notes of the times and the imprints. London. 1856. 8°. **BPL.**

Also issued with J. R. Smith's name as compiler.

- ✓ 3. **Sotheby, S. Leigh and Wilkinson, John.** A catalogue of a very valuable and important collection of Shaksperian and dramatic literature. Day of sale, May 23, 1856. **BPL.**

This catalogue is described as "chiefly consisting of the books used for the first five volumes of Mr. Halliwell's folio edition of Shakespeare." The **BPL.** copy of this catalogue is priced, and those purchased by Mr. Barton (now in that library) are marked. Some of the rarer Shakspeariana brought the following prices:—

Lucrece, 1655, £25 10s. See Winsor's *Bibliog. of Shakespeare's poems*, p. 7.

Yorkshire Tragedy, 1619, £9 9s. Sold again at the Tite sale, 1874, £5 7s. 6d.

Sir John Oldcastle, 1600, £3. This copy had brought at the Crawford sale £11; and passed from Halliwell to Tite, at whose sale, 1874, it brought £17. There is a copy in **BPL.** See 1857, no. 2, and 1859, no. 3.

Puritaine, 1607, £18 15s. Again sold in the Tite sale, 1874, for £9 15s. There is a copy in **BPL.**

Two noble kinsmen, 1634, £4 6s.

Pericles, 1635, £4 6s.

Pericles, 1630, Theobald's collations, £4 14s. See 1857, no. 2; 1859, no. 3.

Love's labour lost, 1631, £9. This copy passed to Sir William Tite and brought at his sale, 1874, £8 15s. and is now, 1879, held by Quaritch at £9 9s.

Othello, 1630, £5 5s. "The readings certainly differ considerably from those of the edition of 1622."

Hamlet, 1637, £2 11s. There is a copy in **BPL.**

Henry V., 1608, Capell's copy, £8 18s. 6d. A copy with Capell's annotations is owned by H. H. Furness, Esq., of Philadelphia. There are several other copies of this edition in this country, and there is to be added to the list in Winsor's *Bibliog. of Shakespeare*, p. 33, the copy bought at the Crawford sale in London, 1876, at £14 15s. for E. G. Assay, Esq., of Chicago.

Romeo and Juliet, 1637, £6 15s. There is a copy in **BPL.** See 1857, no. 2; 1859, no. 3.

Merry wives of Windsor, 1619, £16. This copy subsequently brought at the Tite sale, 1874, £12 15s.

Richard III., 1598, £18 5s. Several pages in fac-simile by Harris. Halliwell had previously sold a copy at £25.

Midsummer night's dream, *Roberts*, 1600, £17 5s. Quaritch holds a copy, 1879, with Sieevens's autograph, at £60. There are five copies in this country. See Winsor's *Bibliog. of Shakespeare*, p. 51.

Henry IV., 1622 (title mended), £5 5s. This copy came from Utterson's library; was sold again in the Tite sale, £6 6s., and is now, 1879, held by Quaritch at £16 10s., who adds that it "is the only copy which has turned up for many years." There is a copy in **BPL.**

Troublesome raigne of King John, 1622, £7 10s. There is a copy in **BPL.**

Whole contention, etc. [1619], £6 7s. 6d. This copy, which has *Pericles*, beginning sig. R., had brought £11 5s. at Loacombe's sale in 1854, and passed from Halliwell to Tite, at whose sale in 1874, it brought £21, and is now in the Lenox library, in New York. See 1857, no. 2; 1859, no. 3.

Leare, 1608, "*Pride built*" edition, £22 10s. Halliwell had bought this copy of Thorpe for £12 12s.

Merchant of Venice, *Heyes*, 1600, £37. The present copy cost Mr. Halliwell £44 5s.

Sonnets, 1609, title and dedication in fac-simile, £41. Cost £30 5s. at Utterson's sale. This copy was afterwards sold in the Tite sale, 1874, for £16 10s. See Winsor's *Bibliog. of Shakespeare's poems*, p. 8.

Folio of 1623, with early MS. annotations, but verses, letter-press of title, and last three leaves reprinted, £39. A fac-simile of one of the leaves with notes is given in Halliwell's folio edition. It had belonged to the earl of Inchiquin.

Folio of 1632, title inlaid, verses from the 3d ed., £5 7s. 6d.

1857.

1. **Shakespeare, William.** The tragedie of King Richard the Second. As it hath beene publickly acted by the right honorable the lord chamberlaine his seruantes. By William Shakespeare. London, printed by W. W., for Mathew Law, and are to be sold at his shop in Paules Churchyard, at the signe of the Foxe. 1608. **BPL.**

This title is from what Halliwell believes to be "the first complete photograph of an old book ever executed." The copy in the Boston public library is inscribed by Halliwell: "Sotheby, June 14, 1858, no. 220. A complete photographic copy of this rare edition, the original of which sold in May, 1857, for £30 10s. The negatives are destroyed, and only ten perfect copies of this fac-simile have been preserved. J. O. Halliwell, Feb., 1858." A considerable portion of this copy is now nearly illegible. See under vol. xxxiii. of the series of fac-similes, 1862-1871.

2. **Sotheby, S. Leigh and Wilkinson, John.** A catalogue of a singularly curious and important collection of Shakspearian, dramatic and philological literature. [J. O. Halliwell's.] Days of sale, May 21, 22, 23, 1857. London. **HC. BPL.**

The collection is described as "having been collected during the last fifteen years, and used for literary purposes by a well-known author." The **BPL.** copy is priced, and Mr. Barton's purchases marked. The following are the most important Shakspearian lots:—

Sir John Oldcastle, title in fac-simile, 1600, £4 4s. This is the edition of this year without Shakespeare's name on the title, and Halliwell says it is rarer and differs greatly from the other edition, having superior readings and additional lines. See 1859, no. 3.

Romeo and Juliet, 1637, £5 15s. Halliwell says of this and the copy in his 1856 sale, that they are believed to be the only uncut copies known. There is a copy in **BPL.** See 1859, no. 3.

Henry IV., 1632, £4 18s. There is a copy in **BPL**.
Leary, 1608, £20 10s. This is the commoner of the 1608 editions, with 44 leaves while the other has 41 leaves. This copy, originally Steevens's, bringing at his sale in 1800, £2 2s., passed successively through the following sales: Duke of Grafton, £6 6s.; Roxburghe, £6 12s.; Halliwell, 1857; Tite, 1874, £11. It is, perhaps, the copy held by Quaritch, 1875-79, "with Steevens's autograph," £16.

Richard, duk. of York, 1600, £6s. This is the highest price yet brought for a copy, and it passed to Mr. Barton, and is now in **BPL**. Halliwell has written in it, "The present is the second (edition) and is of the greatest rarity in an absolutely perfect state."

Much ado about nothing, 1600, £6s. Steevens's copy is in **BPL**.

Henry IV., 1622, £9. This copy is now in **BPL**.
Othello, 1655, £3. There is a copy in **BPL**. See 1859, no. 3.
Othello, 1630, £4 14s. 6d. Halliwell described it as a peculiarly fine copy of a play almost always found in a cropped state. It brought £6 at Tite's sale.

Henry IV., 2d part, 1600, £100. The catalogue has the following notes: "The present is the rarest of any of Shakespeare's genuine plays that have occurred for sale during the last twenty years." "Nothing would induce me to part with it, had I not a copy largely made up with excellent fac-similes which, though of slight comparative pecuniary value, is as useful to me for purposes of collation."

This is the edition of 1600 having 43 leaves, the other having 41 leaves. Cf. note under vol. xii. of the series given under 1860-1871.

Leary, 1655, £11. "The rarest of the later quartos." "With the exception of a copy sold, 1856, £10 10s., we do not trace another for many years." It had been Jolley's copy; and passed from Halliwell to Barton, and is now in **BPL**.

Taming of the shrew, 1631, £5 5s. There is a copy in **BPL**. See 1859, no. 3.

Henry IV., 1599, few leaves inlaid, £75. It was described as "probably the finest copy known of one of the most intrinsically valuable of all the early quartos." Mr. Halliwell adds in a note, "The difficulty of obtaining [the early quartos] even with the extensive searches instituted by me during nearly eighteen years" prove their "undeniable rarity. Among many other localities that have been tried, recollecting the occupation of Flushing by the English in the time of Shakespeare, — early editions might have been carried thither, especially as English plays were performed there, — I was at the expense of sending an intelligent agent through Zealand, unfortunately without any useful results. In fact, bearing in mind the expenses of searches of this kind and the necessity of buying duplicates for the sake of securing others, I may safely say no Shakespeare quarto ever came into my hands at a reasonable rate." Cf. Winsor's *Bibliog. of Shakespeare*, p. 14.

Richard II., 1608, £30 10s. It was bought by Tite, and sold at his sale in 1874, for £16 5s. This is the edition of this year, which does not mention the "additions" on the title.

Troublesome reigns of John, King of England, 1611, £17 10s. Halliwell bought it at Loscombe's sale, June, 1854, for £10 10s.; and it now passed to Barton, and is at present in the **BPL**.

Pericles, 1630, £5. This copy had the "long imprint," and is now in the **BPL**. See 1859, no. 3.

Love's labour lost, 1631, £3. — now in **BPL**.

The whole contention, etc. (1619), £4 4s. See 1859, no. 3.

3. Halliwell-Phillips, J. O. Early editions of Shakespeare. **BPL**.

This tract, without title-page, of 14 pages, is dated June 22, 1857, and enumerates various copies, described as "absolutely genuine and not perfected from any other copies." Early quartos beginning with the *Hamlet* of 1603, are described.

✓ 4. Halliwell-Phillips, J. O., editor. Books of characters, illustrating the habits and manners of Englishmen from the reign of James I. to the restoration, selected by J. O. Halliwell. London. 1857. 4^o.

Twenty-five copies printed on thick vellum paper.

1858.

✓ 1. Sotheby, S. Leigh, and Wilkinson, John. Catalogue of rare and curious books illustrative of the English drama and early English literature, the property of the well-known Shakespearean commentator [J. O. Halliwell.] Date of sale, June 14, 1858. London. **HC. BPL**.

The **BPL** copy is priced, with Barton's purchases marked, and is endorsed, "It possesses much interest to Shakespearean bibliographers on account of the enormous prices paid for some of the lots." The chief Shakespearean numbers are as follows:—

Hamlet, no date, £24 10s. "Probably the finest copy known," and is presumably the one described in Halliwell's "Hand-list," 1859, as "one of the few of so early date" in an uncut condition.

Hamlet, 1611, £18. There is a copy in **BPL**.

Merchant of Venice, Robert, 1600, £14 15s. There is a copy in **BPL**. See no. 3 under 1859.

Merry wives of Windsor, 1619, £13 13s. There is a copy in **BPL**.

Sonnets, 1609, £154 7s. This copy had the Wright imprint, and was bought by Henry Huth. See Winsor's *Bibliog. of Shakespeare's poems*, p. 8. Halliwell made the following note in a copy of the 1609 *Romeo*, now in the British museum: "Shakespeare 400s rise in value in geometrical progression. In Brand's sale 1807 the *Sonnets*, MS. title, fetched ten shillings & sixpence. At Uttersen's sale, 1852, I gave upwards of £30 with title & one leaf MS!"

Troublesome reigns of John, king of England, 1611, £10. *Romeo and Juliet*, 1609, £86. "The first perfect copy that has appeared for sale for many years." It was bought by Tite, and brought at his sale, 1874, £43 10s.

Richard II., 1615, £11. There is a copy in **BPL**. See no. 3, under 1859.

Henry V., 1608, £7 17s. 6d. See no. 3, under 1859.

Poems, 1640, £5 7s. 6d. See no. 1, under 1859.

Mortgage deed of a house in Blackfriars, March 11, 1612-13, signed by Shakespeare. 300 guineas. Bought by the British museum.

2. Famous victories (The) of Henry the Fifth. Containing the Honourable Battell of Agincourt. As it was acted by the Kinges Maiesties seruants. London. Imprinted by Barnard Alsop, and are to be sold by Tymothic Barlow, at his shop in Paules church-yard, at the Signe of the Bull-head. 1617. *Fac-simile*.

Halliwell caused ten photographic fac-similes of this quarto to be made (*Shakespeareana*, 1862, no. 777), before he disposed of the original to the British museum. The original bears this note by Halliwell: "This beautiful copy of the Famous Victories of Henry the Fifth, though corresponding in text with the known editions of 1617, and one without date printed about the same time, is in itself, as far as I know, unique. The other copies of 1617 are stated to be 'Imprinted by Barnard Alsop, dwelling in Garter Place in Barbican, 1617.' Even that edition is very rare. No copy has, I think, been sold since Heber's, part 2, no. 4636."

Halliwell described this copy in 1857, as "edges entirely uncut" and "perfectly genuine throughout, not a single leaf being supplied from any other copy." Bohn is in error in quoting a copy in the Wilks sale, 1847. Halliwell's "Warehouse catalogue," 1876, shows a copy. In his folio edition of Shakespeare he gives a fac-simile of the title.

1859.

1. Halliwell-Phillips, J. O. An introduction to the evidences of Christianity. 2d ed. London. 1859. 16^o. **HC. BPL**.

2. Nares, Robert. A glossary; or, Collection of words, phrases, names, and allusions to customs, proverbs, etc., which have been thought to require illustration, in the works of English authors, particularly Shakespeare and his contemporaries. A new ed. with considerable additions, by J. O. Halliwell [-Phillips], and Thomas Wright. 2 vol. London. 1859. 8^o. **HC. BPL**.

The editors' additions are distinguished by a † prefixed, and the examples thus added amount to between five and six thousand.

3. Sotheby, S. Leigh, and Wilkinson, John. Catalogue of rare and curious books illustrative of the English drama and early English literature [J. O. Halliwell's]. Day of sale, June 13, 1859. London. **HC. BPL**.

The **BPL** copy is priced, with Mr. Barton's purchases marked. The most important Shakespearian lots are as follows:—

Shakespeare's jests. No title. Circa 1770, £1 15s. "It is difficult to account for the extreme rarity of this quaint but very gross collection, in which a number of anecdotes are fathered upon Shakespeare. Only two copies beside the present have occurred to our notice."

Facsimile of title of first folio of Shakespeare, including the Droschout print, by Harris, £2 5s.

Hamlet, 1603, without title. A diminutive photographic reproduction, some pages indistinct from the discoloration of the paper. £1 5s. See no. 1, under 1857.

Merry devil of Edmonton, 2d ed., 1617, £6 8s 6d.

The heroicall adventures of the knight of the sea, black letter, 1600, £29. The only other copy known brought £25 at the Roxburghe sale.

Greene's Ghost haunting conie catchers, 1602, £11 10s.

Defence of coney catching, 1592, £11 11s. See 1859, no. 8.

Greene's second part of coney catching, 1617.

Greene's Quip for an upstart courtier, 1620, £5 17s 6d.

Greene's Notable discovery of cozenage, 1591, £13. See 1859, no. 9.

Greene's Newes both from Heauen and Hell, 1593, £15 10s.

Pericles, 1630, £5 12s 6d. Now in the **BPL**. See 1856, no. 3; 1857, no. 2.

Taming of the shrew, 1631, £5 17s 6d. See 1857, no. 2.

The chronicle history of Henry the fifth, 1608, £6. See no. 1 under 1858.

Sir John Oldcastle, 1600, £5 15s. See 1856, no. 3; 1857, no. 2.

The whole contention, etc., [1619], £4. See 1856, no. 3; 1857, no. 2.

Richard the second, 1615, £32 10s. See no. 1, under 1858.

Merchandise of Venice, Robert's ed., 1600, £21. See no. 1, under 1858.

Shakespeare's Poems, 1640. The frontispiece a reprint. £2 18s. See no. 1 under 1858.

Othello, 1655, £3 10s. See 1857, no. 2.

Romeo and Juliet, 1637, £4. See 1853, no. 3; 1857, no. 2.

- ✓ 4. **Halliwell-Phillipps, J. O., editor.** The Whimzies; or a new cast of characters: from the original edition, published in 1631. London. 1859. 4°. **BPL.**

"Limited to twenty-six copies," attested by Thomas Richards, the printer. The original title-page is reproduced. The piece has been attributed to Richard Brathwait.

This was the earliest of a series of reprints of *Curious early English literature*, which Halliwell by a circular (in **BPL** 3852.13) proposed to issue in editions of 25 copies, with one for the British museum, and occasionally one other for some private contributor of rare texts, dividing the cost into 25 parts, which in the case of this book came to £1 3s. 10d. each part.

- ✓ 5. **Deloney, or Delone, Thomas.** The history of John Winchcomb, usually called Jack of Newbury, the famous clothier. Written, A.D. 1597. Edited by J. O. Halliwell [-Phillipps]. London. 1859. sm. 4°. **HC. BPL.**

"Twenty-six copies printed." Certified to by Thomas Richards, the printer.

This story was licensed in 1596, and the earliest edition which the editor could find was the ninth, 1633, which he has followed, reproducing the title. "The romance though highly illustrative of old manners and customs, is of small literary merit."—See Collier's *Bibl. og. act. of early Eng. lit.*, i. 266; Ritson's *Ancient songs and ballads*, ii. 70-75.

6. **Tinker (The) of Turvey, or, Canterbury tales:** an early collection of English novels. Edited by J. O. Halliwell [-Phillipps]. London. 1859. sm. 4°. **HC. BPL.**

"Twenty-six copies printed." Certified to by Thomas Richards, the printer.

This collection of old stories was first published in 1590 with the title, *The cobler of Canterbury*, and was an answer to Tarlton's *Newes out of Purgatorie*; another edition with the same title appeared in 1608, and in 1630 it appeared again under the title, *The Tinker of Turvey, his merry Pastime in his passing from Billingsgate to Graver-End*; the present edition is reprinted from this last edition and contains a reproduction of the original title-page. It has been erroneously ascribed to the celebrated Robert Greene; but in a work entitled, *Greene's Vision*, Greene's authorship is denied. The stories consist of six tales told by different characters, namely:—1. The Tinker's Tale; 2. The Cobler's Tale; 3. The Smith's Tale; 4. The Gentleman's Tale; 5. The Scholler's Tale; 6. The Seaman's Tale."

7. **[S., S.] Fortune's tennis ball:** an early English metrical version of the foundation story of Shakespeare's *Winter's tale*. Edited by J. O. Halliwell [-Phillipps]. London. 1859. sm. 4°. **HC. BPL.**

"Twenty-six copies printed." Certified to by Thomas Richards, the printer.

Reprinted from the 1673 edition with a reproduction of the title-page, reading: *Fortune's Tennis-Ball; or, The most excellent History of Dorastus and Fawnia. Rendered in delightful English verse, And worthy the Perusal of all Sorts of People.* By S. S., Gent. No earlier edition is known, though the book was entered in the Stationer's registers in 1656. Halliwell, in his preface to this reprint, says, "the copy from which it is taken is, as far as is known, unique." It is a metrical version of Robert Greene's *Pandosto, the triumph of time*, 1558, afterwards called *Dorastus and Fawnia*. There is another reprint in Halliwell's folio edition of *Shakespeare*, vol. 8.—See Hazlitt's *Bibliog. of old Eng. lit.*, 162. For another version, see Francis Sabie's *Fisher's tale*, 1867.

- ✓ 8. **[Cunny-catcher, Cuthbert, pseudon.]** The defence of coneycatching, A.D. 1592, being a reply to works by R. Greene on the same subject. Edited by J. O. Halliwell [-Phillipps]. London. 1859. 16°. **HC. BPL.**

Reprinted (26 copies) from the original edition of 1592, with a facsimile of the woodcut on the title-page. The **HC.** copy has the autograph of Sir William Tite. See 1859, no. 1.

9. **Greene, Robert.** The notable discovery of coney-catchers' cozenage; as well as the cozenage of colliers. First printed in 1591. Edited by J. O. Halliwell [-Phillipps]. London. 1859. 16°. **HC. BPL.**

Reprinted (26 copies) from the original edition of 1591. A "picture of low life of the time of Shakespeare." The **HC.** copy has Sir William Tite's autograph. See 1859, no. 1.

10. **Hornby, William.** The scourge of drunkenness. Edited by J. O. Halliwell [-Phillipps]. London. 1859. 4°. **BPL.**

"Limited to twenty-six copies." Attested by Thomas Richards, the printer.

The original title-page is reproduced.

A modern transcript assigns 1614 as the date of this poem. The earliest impression seen by the editor is 1619. The Heber catalogue has one dated 1618, which may have been the original issue of which 1619 is a new impression.

11. **Taylor, John, the water poet.** A short relation of a long journey made round an oval by encompassing the principalitie of Wales, from London, through and by the counties of Middlesex, etc. 1652. In prose and verse. [Edited by J. O. Halliwell-Phillipps]. London. 1859. 4°. **BPL.**

"Limited to twenty-six copies, all on tinted paper."

Cf. Hazlitt's *Hand-book*; Allibone's *Crit. dict.*, iii., and further references there.

12. **Lodge, Thomas.** The Margarite of America. Edited by J. O. Halliwell [-Phillipps]. London. 1859. 4°. **BPL.**

"Limited to twenty-six copies." Attested by Thomas Richards, the printer.

The original title-page, 1596, is reproduced.

Accounts of Lodge are in the *Shakespeare society publications*, vol. 17, by David Laing; by Collier, in his *Dram. poetry*, iii. 213; and *Gentleman's magazine*, 1850; in Wood's *Athen. oxoni.* ed. Bliss, ii. 382; Hakluyt's *Collection*, ed. 1599, iii. p. 803; Drake's *Shakespeare and his times*, ii. 249; Allibone's *Crit. dict.* and references, etc.

- ✓ 13. **Shakespeare, William.** Shaksperian drolls, from a rare book, printed about 1698, entitled the Theatre of ingenuity. Edited by J. O. Halliwell [-Phillipps]. London. 1859. sq. 24°. **HC. BPL.**

"Limited to thirty copies."

In the preface Halliwell says, "The only copy I have met with has a mutilated title-page, so that the exact date is a matter of conjecture. . . . The drolls are taken, without

acknowledgment, from Shakespeare's plays of the Taming of the shrew [Acts II. and V.], and the first part of Henry the Fourth. . . . The poem, entitled the Lady's advice, is taken from the former play."—See Bohn's *Lovell's*, 2338 The first droll is called *The mad wooing*; the second is called *The boaster*.

14. **Halliwell-Phillipps, J. O., editor.** An ancient survey of Pen Maen Mawr, North Wales, from the original manuscript of the time of Charles the First. London. 1859. 8°.

"Limited to thirty copies."

- ✓ 15. **Halliwell-Phillipps, J. O.** A brief hand-list of books, manuscripts, etc., illustrative of the life and writings of Shakespeare. Collected between the years 1842 and 1859. London. 1859. 8°. **BPL.**

"Strictly limited to thirty copies."

Printed with open spaces for memoranda.

Enumerates the Dering MS. of Henry IV.; twenty of the early Shakespeare quartos, and various other articles, "most of which have been used in one way or other, in the compilation of Halliwell's folio edition."

1860.

- ✓ 1. **Halliwell-Phillipps, J. O.** A skeleton hand-list of the early quarto editions of the plays of Shakespeare; with notices of the old impressions of the poems. London. 1860. 8°. **HC. BPL.**

"Thirty copies printed for private circulation."

Printed on blue writing paper only at the top of the verso of each leaf, in order "to afford room for MS. notes on the bibliographical peculiarities of each play."

The titles and imprints of the early quartos are given at length for the first time in this list.

- ✓ 2. **Halliwell-Phillipps, J. O.** A brief hand-list of the early quarto editions of the plays of Shakespeare; with notices of the old impressions of the poems. London. 1860. 8°. **BPL.**

"Twenty-five copies printed for private circulation."

This is the previous work printed compactly, with no blank spaces.

3. **Conceits, clinches, flashes, and whizies; a jest-book of the seventeenth century, hitherto unknown to bibliographers, reprinted from the unique copy of 1639.** Edited by J. O. Halliwell [-Phillipps]. London. 1860. sm. 4°. **HC. BPL.**

"Twenty-six copies printed." Certified to by Thomas Richards the printer.

With a reproduction of the original title-page.

On p. 30 is a curious jest relating to Shakespeare, showing that "a popular impression prevailed that the reputation of the great dramatist depended more upon his plays than on the good deeds of his life." Halliwell in his preface says, "This jest appears here, as far as is known, for the first time." In his *Old-book rarities*, p. 57, he again says, "Unknown to all bibliographers." Ingleby in his *Shakespeare's centuries of prayer* does not notice it.

- ✓ 4. **[Shakespeare, William].** Fac-simile copies from the edition of Hamlet dated 1605, made for the purpose of showing that it is the same impression as that of 1604, the date only being altered. Edited by J. O. Halliwell [-Phillipps]. The fac-similes by Messrs. Ashbee and Dangerfield. London. 1860. 4°. **HC. BPL.**

"Twenty-six copies printed for private circulation."

The fac-similes of pages given are the title, the first of the text, and four others, including the last. That of the final page is taken from the Capell copy, the only perfect one known; the others are from the British museum copy, which lacks the last leaf. See Winsor's *Biography of Shakespeare*, p. 26.

5. **Halliwell-Phillipps, J. O., editor.** Fac-similes of the plats of three old English plays, viz., the Battle of Alcazar, Frederic and Basilia, and the Dead man's fortune; being the original directions for the actors, suspended near the prompter's station on the walls of the Fortune play-house, temp. Elizabeth. London. 1860. l. fo. **BPL.**

"Limited to twenty-six copies."

6. **Halliwell-Phillipps, J. O., editor.** A brief relation of some of the grievances of the inhabitants of the isle of Anglesea, a curious account of the state of that island in the seventeenth century, now first edited from the original manuscript. London. 1860.

"Limited to twenty-six copies, all on thick paper."

- ✓ 7. **Breton, Nicholas.** The will of wit, otherwise called wit's will, or will's wit. Now first reprinted from the rare edition of 1599. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 4°. **BPL.**

"Limited to twenty-six copies," attested by Thomas Richards, the printer.

The title-page is reproduced. Halliwell had never seen the edition of 1597 mentioned by bibliographers; but the records of the Stationers' company make it probable there was an earlier edition in 1580.

8. **W., K.** Confused characters of conceited coxcombs, or, A dish of traitorous tyrants; reprinted from the original edition of 1661. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 4°. **BPL.**

"Limited to twenty-six copies," attested by Thomas Richards the printer.

Halliwell supposes the author to belong to the university of Cambridge. The name of Verax Philobasileus is on the title, which is reproduced in this reprint.

9. **R., S.** Greene's ghost-haunting conycatchers, wherein is set down the art of humouring, &c., with the merry conceits of Doctor Pinchback. A tract by S. R., 1626. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 16°. **HC. BPL.**

Reprinted (26 copies) for private circulation from the edition of 1626. Lowndes says the initials mean "probably Samuel Rowlands or Samuel Rid." The editor says, "attributed, apparently on uncertain grounds, to Samuel Rowlands."

- ✓ 10. **Fitz, Sir John.** Narrative of the bloody murders committed by F., and his suicide in August, 1605; added, two murders done in Lincolnshire revealed in June, 1604. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 8°. **BA.**

"Twenty-six copies on thick paper."

11. **Halliwell-Phillipps, J. O., editor.** A pretie new enterlude, both pitie and pleasaunt of the story of Kyng Daryus; now first reprinted from the original edition issued in 1565. London. 1860. 4°. **BPL.**

"Limited to twenty-six copies," attested by Thomas Richards, the printer.

The title-page is reproduced.

Halliwell says only three perfect copies are known, and that it is one of the earliest English religious plays in which the character of Vice is introduced.

- ✓ 12. **Halliwell-Phillipps, J. O., editor.** The doctors of Dull-head college. Being a droll formed out of the lost play of the Father's own son. London. 1860. sm. 4°. **BPL.**

"Limited to thirty copies."

The play is earliest mentioned in 1699; and Pepys. Sept. 28, 1661, records seeing it. The droll is here reprinted from Kirkman's *Wits*, 1672.

- ✓ 13. **Halliwell-Phillipps, J. O., editor.** A new and merrie prognostication, being a metrical satire suppositiously assigned to Will Summers the jester, and three others, now first reprinted from the very rare edition of 1623. London. 1860. 8°. **BPL.**

"Thirty copies only."

- ✓ 14. **Debate and stryfe (The) betwene somer and wynter; a poetical dialogue, from the unique copy printed by Laurence Andrew early in the sixteenth century.** Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 24°. **HC. BPL.**

"Limited to thirty copies."

The original copy is a 4° of four leaves, in black letter. A copy is in the British museum. In the preface, Halliwell says, "I cannot help thinking that some dialogue, such as the present one, suggested to Shakespeare the conclusion of his drama of 'Love's labour's lost.'" It is also reprinted in Hazlitt's *Remains of the early popular poetry of England*, iii. 29-31, with a fac-simile of the original half-title and woodcut; in the 21st stanza both Halliwell and Hazlitt have altered the spelling of the word *deane* to *deane*. See also Bohn's *Lowndes*, 2546; Hazlitt's *Bibliog. of old Eng. lit.*, 583.

- ✓ 15. **Halliwell-Phillipps, J. O., editor.** A treatise of a galaunt, with the maryage of the fayre Pusell the bosse of Byllyngesgate unto London Stone; two poems, from the unique edition, printed by Wynkyn de Worde. London. 1860. sq. 120. **BPL.**

"Limited to thirty copies."

16. **Deloney, or Delone, Thomas.** Three old ballads on the overthrow of the Spanish armada, written A.D. 1588; now first reprinted from black-letter copies, supposed to be unique. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BPL.**

"Limited to thirty copies."

These ballads are believed to be amongst the earliest ballad productions of this prolific writer. — See *Preface*.

- ✓ 17. **[Shakespeare, William].** The merry conceited humours of Bottom the weaver, a droll composed out of the comic scenes of the Midsummer night's dream [by Robert Cox]. About 1646. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BPL.**

"Limited to thirty copies."

This droll was first printed separately in 1661, the publishers being Francis Kirkman and Henry Marsh; it was afterwards included in the first part, according to Halliwell; or in the second part, according to Baker (in his *Biographia dramatice*) of Kirkman's *Wits, or Sport upon sport, 1670-72*, from which this edition is a copy. The authorship has been ascribed to Robert Cox. — See Baker's *Biog. dramat.*, i. 154, 155, iii. 414, 415; Collier's *Bibliog. acct. of early Eng. lit.*, ii. 211; Halliwell's *Dict. of old Eng. plays*, 36; Hazlitt's *Bibliog. of old Eng. lit.*, 319.

- ✓ 18. **Shakespeare, William.** The droll of the bouncing knight, or The robbers robbed; to which is added the Droll of the gravemakers, both constructed out of Shakespeare's plays about A.D. 1647, and acted at Bartholomew and other fairs. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BPL.**

"Limited to thirty copies."

These drolls are reprinted from *The wits, or sport upon sport, collected by Francis Kirkman*, London, 1672, which contains twenty-five others, besides the two named in the above title. Kirkman states that *The bouncing knight* is taken "out of Edw. IV." when it is really drawn from Henry IV. part 1. The other is from Hamlet. The editor says only five of these droll's appear to be originals, the rest are from favorite plays, and in one instance from a drama now otherwise unknown.

- ✓ 19. **[Cox, Robert].** The conceited humours of Simpleton the smith, a theatrical droll, composed about 1647. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BPL.**

"Limited to thirty copies."

This droll is taken from the author's *Acteon and Diana*, and was reprinted in Kirkman's *"Wits, or Sport upon sport, 1672."* See Baker's *Biog. dramat.*, i. 154, 155; Halliwell's *Dict. of old Eng. plays*, 228, where he assigned it to Kirkman.

- ✓ 20. **Wyse chylde (The) and the Emperor Adrian;** a dialogue resembling that of Salomon and Saturn; from the unique edition printed by Wynkyn de Worde. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BA.**

"Limited to thirty copies."

The original of this tract is a 4° of six leaves in black letter; it is preserved in the British museum. According to Halliwell it is unknown to all the writers on the dialogues of Salomon and Saturn. — See Bohn's *Lowndes*, 2708.

cf. John M. Kemble's edition of *Salomon and Saturnus*, printed for the Elfric society, 1848.

- ✓ 21. **Crouch, Humphrey.** The Welch traveller; or, The unfortunate Welchman, 1671. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 160. **BA. BPL.**

"Limited to thirty copies."

22. **Thumb, Tom.** The metrical history of Tom Thumb the Little, as issued early in the eighteenth century, in three parts. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BA.**

"Limited to thirty copies."

The editor's preface enumerates the earlier references to the story, and the earlier editions and versions. A partial list of Tom Thumb literature is given in Bohn's *Lowndes*, p. 2681.

- ✓ 23. **[Widow of Watling street.]** The ancient ballad of the fair widow of Watling street and her three daughters, from the earliest known edition printed by Thomas Pavier about 1600. Edited by J. O. Halliwell [-Phillipps]. London. 1860. sq. 240. **HC. BPL.**

"Limited to thirty copies."

This ballad was registered with the Stationers' company, Aug. 15, 1597; but no earlier edition than Pavier's is known. Malone had conjectured from the title that the pseudo-Shakespearian play, *The puritanus* was founded on this ballad; but Halliwell says the story is essentially different.

24. **Decker, Thomas.** Decker's dream, in which, being rapt with a poetical enthusiasm, the great volumes of heaven and hell were opened to him, in which he read many wonderful things. Reprinted from the rare edition of 1620. Edited by J. O. Halliwell [-Phillipps]. London. 1860. 40. **BPL.**

"Limited to twenty-six copies," attested by Thomas Richards, the printer. The original title-page is reproduced, containing a woodcut, representing a man, perhaps Decker, lying in bed. For curious particulars of Decker, see Collier's *Principal actors in the plays of Shakespeare*, 1846.

- ✓ 25. **Day, John.** Humour out of breath; a comedy. Now first reprinted from the original edition of 1608. Edited by J. O. Halliwell [-Phillipps]. London. Printed for the Percy library. 1860. 120. **BPL.**

Marked in MS.: — "Fifty copies only preserved. J. O. H." The title-page is reproduced. The editor's notes, pp. 77-79, are at the end.

Halliwell says, "This was the first publication of the intended Percy library. The project has been abandoned for want of support, the present being the only one printed: The impression originally consisted of 500 copies, 50 have been preserved, and the rest destroyed."

- ✓ 26. **Halliwell-Phillipps, J. O.** Hand-list of the early English literature in the Douce collection in the Bodleian library. London. 1860. 80. **BPL.**

"For private circulation only. Fifty-one copies printed."

- ✓ 27. **Halliwell-Phillipps, J. O.** A hand-list of early English literature preserved in the Malone collection in the Bodleian library; selected from the printed catalogue of that collection. London. 1860. 80. **BPL.**

"Strictly limited to fifty-one copies, for private circulation only."

"The Malone collection includes some of the most important early English rarities of the Bodleian library, and with the numerous important additions in the same direction, render that library one of the most interesting in the world to English students."

The Malone collection is kept in a separate room in the Bodleian, along with another special collection. Mackay's *Annals of the Bodleian*, contains accounts of the Malone collection, 1821, 1833, 1834; of the gifts of Shakespeariana by Thomas Caldecott, 1833; of the purchases from the Heber sale, 1834, and from the Chalmers sale, 1841, respectively under the years named.

- ✓ 28. **Halliwel-Phillipps, J. O.** Notes of family excursions in North Wales taken chiefly from Rhyl, Abergelge, Llandudno, and Bangor. London. 1860. sm. 40. **BPL.**

- ✓ 29. **Halliwel-Phillipps, J. O.** A dictionary of old English plays, existing either in print or in manuscript, from the earliest times to the close of the seventeenth century; including also notices of Latin plays written by English authors during the same period. London. 1860. 80. **HC. BA. BPL.**

One of the **BPL.** copies is on thick paper (25 printed); and in it are inserted two MS. letters of Halliwell to the publisher relating to the book, in which he says, "I went carefully through the London catalogues from 1680 to 1720."

This work is "grounded on the list of plays given in the last and best edition of the *Biographia dramatica*, 1812, but with numerous corrections, additions, and alterations." The compilers of the *Biog. dram.* had largely depended on Gerard Laubaine's *Account of the English dramatick poets*, Oxford, 1691. The arrangement is alphabetical by the titles of the plays. The volume closes with a list of "The collected works of dramatic authors," p. 282; lists of "Collections of old English plays," p. 286, and of "Collections of miracle plays," p. 290; and an index of authors.

Collier in his *Bibliographical and critical account of the rarest books in the English language*, 1865, "purposely avoided old English dramas and plays," and consequently the present volume conveniently supplements that work. W. C. Hazlitt's *Handbook to the popular, poetical, and dramatic literature of Great Britain from the invention of printing to the restoration*, 1867, is more comprehensive than either; and in his preface, Mr. Hazlitt enumerates the bibliographies of his predecessors in this field.

1861.

1. **Halliwel-Phillipps, J. O.** A few words in defence of the memory of Edward Capell, occasioned by a criticism in the Times newspaper, Dec. 26th, 1860. London. 1861. sq. 16. **HC.**

"Printed only for presentation."

Halliwell thinks that Knight is the "Single critic who speaks of [Capell] with due respect." He dedicates his great folio edition of Shakespeare to the memory of Capell. Of the Capell collection now in Trinity college, Cambridge, he says that, "in a literary point of view, it is one of the most important Shakesperian collections in the world, only in fact to be equalled by the duke of Devonshire's. Capell's is probably superior, on the whole, in the important matter of the genuineness of copies." To the eye of a bibliomaniac the Shakespeare quartos in the Capell collection appear ungainly in their cropped condition, and because of the irregular manner in which they are grouped and bound, several in a volume.

Capell drew up a list of his rarities for Garrick, and from this MS., after Capell's death, Stevens printed a small edition of thirty copies, one of which is in the Boston public library. It has been reprinted in Hartsorne's *Book rarities in the university of Cambridge*.

- ✓ 2. **Halliwel-Phillipps, J. O., editor.** The sack full of neues, an old jest-book, originally printed "in the 16th century, now first reprinted since 1673, from a copy supposed to be unique. London. 1861. sq. 12. **BPL.**

"Limited to forty copies."

There is another reprint in Hazlitt's *Old English jest-books*, 1864.

3. [**Halliwel-Phillipps, J. O.**]. Catalogue of reprints and fac-similes, illustrative of early English and Shakesperian literature, the impressions of which are mostly limited to twenty-six or thirty copies. Will be sold by auction on Saturday, Feb. 2d, 1861. **BPL.**

The notice says the entire impressions will be sold, except that one copy had been sent to the British museum, and another in some cases reserved by the editor. The sale was an experiment to see if such bibliographical curiosities can thus be made to meet their expenses without the trouble attendant on subscription lists. It contains books issued by Halliwell in 1859-60. The **BPL.** copy is marked with prices. The 700 lots brought £415 6s. 6d.

4. [**Shirley, James**]. Jenkin of Wales his love-course and perambulation; an early droll performed at the Red Bull theatre about 1647. Edited by J. O. Halliwell [-Phillipps]. London. 1861. sq. 24. **HC. BPL.**

"Strictly limited to thirty copies."

This droll is taken from the author's *School of compliments*; it was inserted by Kirkman in the *Wits, or Sport upon sport* 1672, from which it is now reprinted. In this form it has some variations from the original which Halliwell says "are worth preserving, although they are of no critical value; and as a contribution to the less valuable but quaint collection of jocular Welsh tracts of the seventeenth century, it may be interesting to many." — See Baker's *Biog. dram.*, iii. 415.

5. **Fenri, John.** A view of some part of such public wants and disorders as are in the service of God, within her majesties countree of Wales, together with an humble petition, unto this high court of parliament for their speedy redresse. Anno 1588. From the original edition. Edited by J. O. Halliwell [-Phillipps]. London. 1861. 40. **BPL.**

"Limited to thirty copies," attested by Thomas Richards, the printer.

The date is on the half-title.

6. **Halliwel-Phillipps, J. O., editor.** The humble remonstrance of Rice ap Meredith, ap Morgan, shentilman of Wales, with fery brave new ballacks or songs, from the original edition of 1652, a curious satirical tract, in prose and verse. London. 1861. sq. 12. **BPL.**

"Limited to thirty copies."

- ✓ 7. **Halliwel-Phillipps, J. O., editor.** An old poem on the mineral wells of Islington, near London, describing the company who resorted to them (1691.) London. 1861. sq. 12. **BPL.**

"Only thirty printed."

- ✓ 8. **Halliwel-Phillipps, J. O.** A first appeal to the public for the preservation of the gardens of Shakespeare. London: Oct. 15, 1861. sm. 80. pp. 4. **BPL.**

- ✓ 9. **Halliwel-Phillipps, J. O.** The national Shakesperian fund. Nov. 4, 1861. f0. pp. 4. **BPL.**

10. **Halliwel-Phillipps, J. O.** The national Shakesperian fund. [Circular, dated Nov. 20th, 1861. With the laws of the fund and a list of the subscriptions up to that time promised. West Brompton, near London. 1861.] 40. **HC. BPL.**

There is a considerable collection of circulars, broadsides, newspaper scraps, etc., relating to the creation of the Shakespeare fund, and the purchase of the Henley street house in Stratford, and of the Shakespeare gardens, most of which, not here enumerated, are preserved in the **BPL.**

1862.

1. **Halliwel-Phillipps, J. O.** A brief list of some of the rarer and most curious old-book rarities in the library of J. O. Halliwell, illustrative chiefly of early English popular literature. West Brompton. 1862. sm. 40. **HC. BA.**

"For private circulation only."

The preface says: "It includes more unique books than are to be found in the Capell collection, or in many a college library."

2. [**Halliwel-Phillipps, J. O., editor**]. A brief hand-list of the records belonging to the borough of Stratford-on-Avon. Showing their general character; with notes of a few of the Shakesperian documents in the same collection. [London.] 1862. sq. 16. **HC. BPL.**

"Only fifty copies printed."

"An inventory of the general account of the contents of the documents as arranged in parcels. . . . Nothing in the way

of a calendar is here attempted." Mr. Halliwell has written "Calendared" against many of the entries in the **MC.** copy.

- ✓ 3. **Halliwell-Phillips, J. O.** A hand-list of upwards of a thousand volumes of Shakespeariana added to the three previous collections of a similar kind, and of which lists have been previously printed. London. 1862. 80. **BPL.**

"Only twenty-five copies printed."

The collection consists of articles costing from one shilling to £63. The editor says: "In lists of Shakespeariana in bookseller's catalogues rarely occurs a single tract of any scarcity."

In a private note, Mr. Halliwell-Phillips gives some account of his experience as a collector of bibliographical rarities, from which, with his consent, a few paragraphs here follow:—

"About the year 1836, when I first began hunting for old books, at the various stalls in our famous London city, black-letter ones and rare prints were 'plenty as blackberries,' and I have often found such things in unlikely places and amidst a mass of commonplace rubbish, exposed for sale in boxes labelled, *These books and pamphlets, 6d. or 1s. each*, outside an old bookseller's window, where another notice informed the passer-by that *Libraries were purchased or books bought*; and thus plainly showed how such now indeed rarities came into the possession of an ignorant bibliophile! It was not, however, till about 1840, that I turned my attention to the more special work of collecting Shakespeare quartos, in which I may say I have been very successful. It was at one of George Chalmers's sales I first bought one or two, and after that I hunted for them in all parts of the country and met with considerable success, often buying duplicates and even triplicates of the same edition and play. At one time I possessed no less than three copies of the very rare quarto edition of *Romeo and Juliet*, 1609, and sometimes even had four copies of more than one of the other quartos. Not so very long before this period, old Jolley, the well-known collector, picked up a Caxton at Reading, Berkshire; and a *Venus and Adonis* of 1594, at Manchester, in a volume of old tracts, for the ignoble sum of one shilling and three pence. Jolley was a wealthy orange merchant of Farringdon street, London, and entertained me often with many stories of similar fortunate finds of rare books, which served to whet my appetite only the more. But I was soon stopped in my book-hunting career, by the appearance all at once on the scene of a number of buyers with much longer purses than my own, and thus I was driven from a market, I had derived so much pleasure from, with very great regret. Some time afterwards circumstances rendered it desirable that I should part with a large number of my book treasures by auction and to the British museum; but even then I retained enough to be instrumental in founding the first Shakespearian library in Scotland, by presenting to the university of Edinburgh, among other rarities, nearly fifty copies of original quartos of Shakespeare's plays, printed before the Restoration, and to keep sufficient myself of the rarest and most valuable examples, which I am proud to feel makes my present collection of such books the largest in this county of Sussex. In fact more early quarto Shakespeares have been in my own possession, than it is now possible can ever fall to the lot of any other individual."

- ✓ 4. [**Halliwell-Phillips, J. O., editor**]. Indenture respecting Shakespeare's property in the Blackfriars. 1612-13. obl. 40. **HC.**

Marked in manuscript:—"Eleven copies only. J. O. H."

Without title, but lettered on the back, as above. It is a lithographic fac-simile of six oblong pages.

1862-1871.

FAC-SIMILES OF THE SHAKESPEARE QUARTOS.

. It is deemed best to keep the following titles together, and not to scatter them through the years, covered by their dates of publication.

The general preface to the series says, "Every single letter has been traced from the originals by hand, and for all really practical uses, this series is as valuable as a collection of the early quartos themselves. But to assert that in delicate and minute points, references to the originals are rendered unnecessary, would be manifestly an exaggeration. There is no known process which could preclude the advisability of an occasional recourse, on special questions, to the early editions." What was true in 1871, it is feared remains so still, notwithstanding the advances in the utilization of sun-work in the processes of printing. This tracing for the lithographic stone was done by Edmund William Ashbee, Mr. Halliwell exercising a general supervision of the work, "I being the director, not the worker," he says, in the account of the series given in his *Shakespeariana*, 1867, p. 40. One side of the leaf only was printed on, and each copy is marked: "For private circulation only."

Only fifty copies printed, nineteen of which were subsequently destroyed, thus reducing the number preserved to thirty-one." The number of each copy then follows, and then the signatures of Ashbee, Tuckett (the binder), and Halliwell. The latter says in a private letter, "Owing to the late fire at the Pan-technicon," Feb. 13, 1874, when all the sets unsubscribed for were destroyed, "and the way in which sets have been broken up, I do not fancy that there are above fifteen sets in existence." It is not known that there is a complete set in Boston or its vicinity. The set which belonged to Mr. W. G. Medlicott of Longmeadow, Mass., was taken to England. Cf. *Medlicott Catalogue*, p. 330. The Lenox library in New York has a complete set; and others are in the private collections of Mr. C. W. Frederickson of New York, and of Mr. Horace Howard Furness of Philadelphia. There are parts of sets in the Shakespeare society's library in Philadelphia and in the Boston public library.

The original subscription was five guineas per volume.

Shakespeare, William. A collection of lithographic fac-similes of the early quarto editions of Shakespeare, including every known edition of all the plays issued during his lifetime. By Edmund William Ashbee. 48 vol. London. 1862-71. 40.

In the following enumeration of contents the titles will not be given in full, but they can be found in Halliwell's *Skeleton hand-list of the early quarto editions, 1600*; and fac-similes of them are given in Winsor's *Bibliography of the original quartos and folios of Shakespeare*.

Vol. I. Contains the general title, preface, list of contents, and three fac-similes, variations of titles, namely: Richard the Second, 1608; Troilus and Cressida, 1609; and the Romeo and Juliet *without date*.

Vol. II. Venus and Adonis, 1593.

Follows the only copy known, in the Bodleian. Halliwell gives the title in fac-simile in his folio edition of Shakespeare, xvi. 278. Cf. Winsor's *Shakespeare's poems*, no. 2 of the *Bibliog. contributions of Harvard college library*.

Vol. III. Lucrece, 1594.

Halliwell gives the title in fac-simile in his folio edition of Shakespeare, xvi. 278. Cf. Winsor's *Shakespeare's poems*, p. 5, for enumeration of copies of the original known.

Vol. IV. Venus and Adonis, 1594.

There are three copies known,—in the British museum, Bodleian, and Huth collections. Cf. Winsor's *Shakespeare's poems*, p. 3.

Vol. V. Romeo and Juliet, 1597.

This follows Garrick's copy in the British museum, several leaves of which are slightly mutilated. Cf. Winsor's *Bibliog. of Shakespeare*, p. 65, for enumeration of other copies, and his *Boston public library Monthly reports*, Aug. 1877, for a collation of the Museum copy. Furness, in his *Romeo and Juliet*, gives a reprint of this edition, and says that on collation the text of this fac-simile and the other three editions in this series, with the text of the Cambridge edition he found about twenty discrepancies, and as on verification of the museum copies, Ashbee was found correct, there were probably variations in the copies used by the editors of the Cambridge edition. Other reprints are given in Steevens's *Twenty plays*, iv.; in Tycho Mommsen's *Shakespeare's Romeo and Juliet*, 1859; in the Cambridge edition of *Shakespeare*; in P. A. Daniel's *Romeo and Juliet*, published by the New Shakspeare society, and in his *Parallel texts*, 1874.

Vol. VI. Richard the Second, 1597. **BPL.**

The two copies known are those in Trinity college library, Cambridge, and in the Huth collection.

Vol. VII. Richard the Third, 1597. **BPL.**

The Huth copy was bought at the Daniel sale in 1864, for the largest sum ever paid at auction for a Shakespeare quarto, £351 15s., and it is the only copy ever publicly sold. There are perfect copies in the Bodleian and in the Devonshire collections, and a fragment only in the British museum. Cf. Winsor's *Shakespeare bibliography*, p. 60, and his *Boston public library Monthly reports*, July, 1877.

Vol. VIII. Love's labor lost, 1598.

Halliwell gives a fac-simile of title in his *Shakespeare*, iv. 211, and his *Shakespeare study-books*, p. 31, shows a copy. The British museum copy had been Daniel's and Heber's. Cf. Winsor's *Shakespeare bibliography*, p. 45, and his *Boston public library Monthly reports*, March, 1877. Halliwell mentions a fac-simile reprint, made privately by Maloué.

Vol. IX. Richard the Second, 1598.

Copies of the original are in the Boston public library, the British museum, Bodleian, etc.

Vol. X. Henry the Fourth, 1598.

Three copies of the original are known, — British museum, imperfect; Trinity college, Cambridge; the Devonshire collection. Halliwell gives a fac-simile of the title in his folio ed. of *Shakespeare*, x. 242.

This has been supposed to be the *editio princeps*, but Halliwell in a communication in the London *Athenaeum*, Jan. 1875, announced that he had found a fragment of an earlier edition, and in his *Shakespeare study-books*, 1876, p. 18, he names "a unique fragment of the earliest and hitherto unknown edition of the First part of Henry the Fourth, the head-line being *The History of Henry the Fourth*," &c.

Vol. XI. Richard the Third, 1598.

Halliwell gives the title in fac-simile in his folio ed. of *Shakespeare*, xi. 381. Originals are in the Capell collection, Trinity college, Cambridge; and in the Bodleian (Heber's); Garrick's copy in the British museum has the last two leaves in fac-simile. Halliwell says the title-page of this Garrick copy, put with an uncut copy of his own, described in 1857, as having title in fac-simile, would make the finest copy known; and this Halliwell copy is perhaps the British museum copy, acquired 9 Nov. 1853, and now numbered C. 34, k. 46. Cf. Winsor's *Shakespeare bibliography*, p. 61, and his *Boston public library Monthly reports*, July, 1877.

Vol. XII. Henry the Fourth, 1599.

BPL.

Garrick's copy of the original, and George the Third's, which had been Steevens's, are in the British museum; while another Steevens copy is in the marquis of Bute's collection. Malone's is in the Bodleian. Daniel's copy came to A. W. Griswold's library, New York, at the cost of £115 10s.

Vol. XIII. Romeo and Juliet, 1599.

Halliwell gives fac-simile of title in his folio ed. of *Shakespeare*, xiii. 120. Copies in the Bodleian, British museum, etc. Reprints are in Mommsen's *Shakespeare's Romeo and Julia*, 1850, and in P. A. Daniel's *New Shakespeare society's* edition, 1874, with revision, 1875, and in his *Parallel texts of the first two quartos*, 1874.

Vol. XIV. Much ado about nothing, 1600.

George the Third's and Garrick's copies of the original are in the British museum. Steevens's copy is in the Boston public library. There is, or was, a copy in the collection of A. W. Griswold, New York city. Halliwell sold a copy in 1857 for £65; and his *Warehouse catalogue* names another. The Ellesmere copy was reproduced by photolithography in 1864, edited by Howard Staunton, and Halliwell's copy of this last, collated in the margin with the Charlemont copy, was given by him to Mr. Horace Howard Furness of Philadelphia. Halliwell gives a fac-simile of the original title and two other leaves in his folio ed. of *Shakespeare*. There is a type reprint in Steevens's *Twenty plays*, i. Cf. Winsor's *Shakespeare bibliography*, p. 52, and his *Boston public library Monthly reports*, April, 1877.

Vol. XV. Titus Andronicus, 1600.

There are two copies known, — in the Ellesmere collection, Bridgewater House, and in the library of the university of Edinburgh.

Vol. XVI. Midsummer night's dream. "Printed by James Roberts," 1600.

Copies are in the Boston public library, Lenox library, and in other American collections according to Winsor's *Shakespeare bibliography*, p. 51. Garrick's and George the Third's copies are in the British museum. Winsor's *Boston public library Monthly reports*, April, 1877. There is a type-reprint in Steevens's *Twenty plays*, i.

Vol. XVII. Midsummer night's dream. "Imprinted for Thomas Fisher," 1600.

BPL.

The Boston public library's copy of the original was Heber's no. 2012 of part ii. of his catalogue. There are copies in the British museum, Bodleian, etc.

Vol. XVIII. Merchant of Venice. "Printed by I. R. for Thomas Heyes," 1600.

There are originals in the Boston public library (formerly Heber's) Lenox (also Heber's), and Griswold collections. The British museum has Garrick's copy, and two which belonged to George the Third, — one of them formerly the Roxburghe copy. Cf. Winsor's *Boston public library Monthly reports*, March, 1877; and his *Shakespeare bibliography*, p. 46, for other copies. Halliwell gives a fac-simile of the title in his folio *Shakespeare*, v. 279. There are variations of texts in different originals. Cf. Halliwell's *Shakespeare study-books*, p. 35, and Collier's *Reasons for a new edition of Shakespeare*, p. 12.

Vol. XIX. Merchant of Venice. "Printed by J. Roberts." 1600.

There are originals in the Boston public library, Lenox library and in other American collections, according to Winsor's *Shakespeare bibliography*, p. 47. Mr. Furness has a copy with Capell's collations and notes. The British museum has Garrick's and George the Third's copies, — the latter marked as "used by S. J.," probably Dr. Johnson. Cf. Winsor's *Boston public library Monthly reports*, March, 1877. It was reprinted in Steevens's *Twenty plays*, i.

Vol. XX. Henry the Fourth, part ii. (sig. E has four leaves, making 41 leaves in all). 1600.

The British museum has an original of this earlier unperfected edition, placed there by Halliwell, who has written in it, "Second Part of Henrie the Fourth. 1600." — There is only one early edition of this play, but some copies have an enlarged sheet E, with an additional scene, consisting of six leaves. The fact clearly is that, as originally published, sheet E contained only four leaves. The error was found out, and in copies issued afterwards, the sheet was altered. There are two copies in the Museum, but both have the enlarged sheet. The present genuine copy of the original sheet is taken from a duplicate in my collection." Steevens reprinted it in his *Twenty plays*, ii., from no. 5460*, part ii. Heber catalogue.

Vol. XXI. Henry the Fourth, part ii. (sig. E has six leaves, making 43 leaves in all). 1600.

Garrick's copy, and George the Third's (formerly Steevens's), are in the British museum. Cf. Winsor's *Boston public library Monthly reports*, Dec. 1876. Halliwell gives a fac-simile of title and first page in his folio ed. of *Shakespeare*, x. 20, where he mentions a copy in his possession having numerous stage directions in a nearly contemporaneous hand; and he has notes in his own 1857 sale catalogue (when the copy sold brought £100 and went to Henry Huth) and in the Sir Wm. Tite catalogue, p. 197. There are other copies in the Bodleian and in the Devonshire collection.

Vol. XXII. Henry the Fifth. 1600.

The king's copy in the British museum was bought at Dr. Wright's sale, 1787. Winsor's *Boston public library Monthly reports*, Jan. 1877. Halliwell gives a fac-simile of title and first page in his folio ed. of *Shakespeare*, x. 200, and there are other copies in the Bodleian, Devonshire collection, etc. It is reprinted in the Cambridge edition, iv.; and by the New Shakespeare society, edited by Dr. B. Nicholson with introduction by F. A. Daniel, the text following this Ashbee fac-simile, compared with the Capell and Huth copies.

Vol. XXIII. Merry Wives of Windsor. 1602.

Halliwell gives a fac-simile of title in his folio edition of *Shakespeare*, ii. 210, and calls it "excessive rarity, only four copies being known to exist, and it is carefully printed in large type, evidently being produced hastily for the purpose of sale." See the note to Halliwell's Shakespeare society reprint under 1842.

Vol. XXIV. Henry the Fifth. 1602.

The originals in Trinity college library, and in the Devonshire collection are the only ones known.

Vol. XXV. Richard the Third. 1602.

Halliwell gives a fac-simile of title in his folio *Shakespeare*, xi. 479. Garrick's copy is in the British museum, Capell's is at Trinity college, Cambridge.

Vol. XXVI. Hamlet. 1603.

There are two copies of this edition known, beside the imperfect copy mentioned in Halliwell's *Warehouse catalogue*, 1876. The first of these two lacks the last leaf, and made a part of a volume containing twelve old plays, which as Sir Henry Bunbury says, "was probably picked up by my grandfather, Sir William Bunbury," who was a nephew of Sir Thomas Hamner. Sir Henry says, "I exchanged the volume with Messrs Payne and Foss for books to the value of £180, and they sold it for £230 to the duke of Devonshire." See *Correspondence of Sir Thomas Hamner*, p. 80; *Athenaeum*, London, 18 Oct. 1856; H. H. Furness's ed. of *Hamlet*; Winsor's *Shakespeare bibliography*, p. 25.

The second copy lacks the title, and was discovered among the books of a student of Trinity college, Dublin, in 1856, who had brought it from Nottinghamshire, and who sold it for one shilling to M. W. Rooney of Dublin, who printed a narrative of its discovery, with a fac-simile of the last leaf — now first known — at Dublin, 1856. Cf. Furness's *Hamlet*, p. 397, and Winsor's *Shakespeare bibliography*, p. 26. It is stitched in paper covers, interleaved and has MS. notes and printed extracts from subsequent editions. Winsor's *Boston public library Monthly reports*, Nov. 1876. Boone, the London bookseller, bought it

of Rooney for £70, and sold it to Halliwell, who wrote in it, "This is the rare & most precious edition of the Hamlet of 1603, of which the only other known copy is in the collection of the Duke of Devonshire. I purchased this volume of Messrs. Boone in Sept., 1856, for £120.—J. O. HALLIWELL." Halliwell disposed of it to the British Museum, where it now is, marked C. 34. k. 1.

A lithographic fac-simile of the Devonshire copy, lacking last leaf, was made (40 copies) in 1858, under Collier's superintendence, and of this there are two copies in the Boston public library, and one in Mr. Furness's collection. A copy is named in the Medlicott catalogue. A fac-simile by a photographic process, with an introduction by F. J. Furnivall, has been issued, 1879, as the first of a new series of the quarto fac-similes.

It has been reprinted in type at London for Payne and Foss in 1825; at Leipzig; at Birmingham, published in London, 1860, edited by Samuel Timmins; in the Cambridge *Shakespeare*, viii.; in Furness's *Hamlet*, ii., where there is a bibliography, as also in Timmins's preface (as above) and in *Notes and queries*, 2d ser. ix. 378, 459.

✓ Vol. XXVII. Hamlet. 1604.

There are three originals known.—the Devonshire, Lord Howe's, and Huth's. Cf. Winsor's *Shakespeare bibliog.*, p. 26. Collier superintended a lithographic fac-simile of the Devonshire copy (40 copies), and there are copies in the BPL, in Furness's collection, and in the Medlicott catalogue. It was also reprinted by Timmins in connection with the 1603 reprint.

A copy in J. W. Reed's sale, 1790, brought £17 6s. 6d., the catalogue calling it unique, but against this statement in a copy of this catalogue there is written, "Of this play there are three copies known. G. S." [George Steevens]. Where is the Reed copy now?

Vol. XXVIII. Henry the Fourth. Part i. 1604.

There is a perfect original in the Bodleian, and an imperfect one in Capell's collection, Trinity college, Cambridge.

✓ Vol. XXIX. Hamlet. 1605.

Two originals known, one in the British Museum, lacking the last leaf, and the other in Capell's collection, Trinity college, Cambridge. See under 1860, Halliwell's fac-simile of some of the pages, for the purpose of showing it to be the same with the 1604 edition, and printed from the same forms. Furness, however, *Hamlet* ii., p. 33, gives a number of instances where the text varies. See also Winsor's *Boston public library Monthly reports*, Nov. 1876.

Vol. XXX. Richard the Third. 1605. BPL.

Halliwell has written in the BPL copy, "The incorrect arrangement of a few of the pages is followed from the extremely rare original in the British Museum, from which it was not thought right to deviate in the slightest degree." Halliwell wrote in the museum copy the following notes: "Cost me £84." "*Richard the Third*, 1605, a perfect genuine copy of this most rare edition, which is not even noticed in any bibliographical list, was unknown to all the other commentators, and first mentioned in Collier's recent edition. The only other known copy is in the Bodleian," which bought it of Halliwell in 1840 for £21. The Tite catalogue, 1874, however, disclosed another copy, which was sold for £16 15s. Halliwell gives a fac-simile of title in his folio ed. of *Shakespeare*, xi. 479.

Vol. XXXI. Lear. First, or "Pide Bull" edition, 41 leaves, 1608.

Halliwell gives a fac-simile of the title in his folio ed. of *Shakespeare*, xiv. 429, and p. 446; he gives fac-similes of two corresponding pages from different copies to show how they vary, though worked from the same forms. On this point see Halliwell's *Shakespeare study-books*, p. 26; Winsor's *Shakespeare bibliog.*, p. 42. Both of the copies in the British Museum have passed through Halliwell's hands, and have notes by him in them. In one, which the Museum acquired in Nov. 1858, there is pasted to a fly-leaf a printed cutting which has the following note:—

"FIRST EDITION, a perfect and genuine copy. Only three perfect copies of this first edition have, to my knowledge, been sold by auction during the last thirty years, —two in Heber's collection and the present one. Both of Heber's copies are now in America, one in the collection of Mr. Lenox, the other in that of Mr. Barton. It is almost the only first edition not in the Daniel collection" (by Mr. Halliwell).

Mr. Halliwell, in the above note, is in error. The copies of this "Pide Bull" edition in this country, are one in the Lenox library, and the other, now or lately in the Griswold collection. It is not in the Barton collection of the Boston public library.

Mr. Halliwell in his *Shakespeare study-books*, p. 26, says he has "a large fragment of the original with singularly curious variations," and he adds, "I believe I was the first to point out that there were only two editions of King Lear issued in the year 1608, but for many years I was at a loss to account for the variations between different copies of the Pide Bull edition. This difficulty has unquestionably been solved by Mr. Aldis

Wright, by supposing that the corrections were made before the sheets were all worked off, and that the corrected and uncorrected sheets were bound up indiscriminately."

The other museum copy is thus inscribed by Halliwell: "Purchased of Garrett of Newcastle for £20, J. O. H." Also, on a slip pasted in, "This copy of the first edition of Lear, wanting the title, should be preserved with my perfect copy, on account of its containing an extraordinary number of curious textual variations, although both copies are evidently printed from the same forms. Compare, for example, the reverse of G, 2, the reverse of H, 3, the first page of H, 4, and various other places."

Vol. XXXII. Lear. Second edition. 44 leaves. 1608.

Halliwell gives a fac-simile of the title in his folio ed. of *Shakespeare*, xiv. 429, and says "all copies exactly correspond." There are originals in the Boston public, Lenox, and other American collections, according to Winsor's *Shakespeare bibliog.*, p. 43. Garrick's, the king's, and a third imperfect copy in the British Museum are described in Winsor's *Boston public library Monthly reports*, Feb. and March, 1877. It is reprinted in Steevens's *Twenty plays*, ii.

Vol. XXXIII. Richard the Second. 1608.

This title does not mention the addition of the "Parliament scene;" but some copies have a title which does mention it, and this last title is given in fac-simile in the introductory volume of this series; and in Winsor's *Shakespeare bibliog.*, p. 58, and pl. 41. There is a photographic fac-simile mentioned under 1857.

Vol. XXXIV. Henry the Fourth. Part i. 1608.

This follows a copy, now in the British Museum, in which is this note by Halliwell: "This is one of only two perfect copies known. It is not in the Capell or in any other collection except the Bodleian, which has the single copy that passed through the various sales to Heber's time. So extremely rare is it that I gladly gave Garrett of Newcastle £25 for an imperfect copy. The present is in a perfect genuine state, not made up in any way." Cf. Halliwell's *Early editions of Shakespeare*, 1857; *Bibl. Heber*, ii. 298; Winsor's *Shakespeare bibliog.*, p. 29.

Vol. XXXV. Henry the Fifth. 1608.

Garrick's and the king's copies are in the British Museum; and Malone's in the Bodleian. Winsor's *Shakespeare bibliog.*, p. 33, names copies in the Boston public, the Lenox, and other American collections. E. G. Assay, of Chicago, bought the copy in the Crauford sale, London, 1876, for £14 15s. Mr. Furness has a copy annotated by Capell. Steevens reprinted it in his *Twenty plays*, iii.

Vol. XXXVI. Romeo and Juliet. 1609.

The Bodleian copy is imperfect. The British Museum copy has notes in it, by Halliwell, as follows: "For this most rare edition (most rare in a perfect state) I gave Mr. Daniel in exchange The History of Tom Thumbe, 1621, bought by me at Utterson's sale for £6. 2. 6, and a volume of curious Penny Romances, No. 1516, at Utterson's sale, which cost me (with commission) £33. 10. The present volume cost me altogether, therefore, £39. 12. 6." "Heber's copy, now in the Bodleian Library, is imperfect, the last leaf being made up with MS." "Another perfect copy of this edition has since been discovered, & sold at Messrs. Sotheby's for £86." It was reprinted by Steevens in his *Twenty plays*, iv.

Vol. XXXVII. Troilus and Cressida. 1609. BPL.

A fac-simile of title and first page of the preface is given in Halliwell's folio ed. of *Shakespeare*, xii. 218. This title reads "Famous Historie;" but some copies omit the word "famous" in the title, and are without the preface. Fac-similes of this shorter title are in the introductory volume of this series, and in Winsor's *Shakespeare bibliog.*, p. 71 and pl. 57. The British Museum has a copy of the "Famous" title which had been Halliwell's, with a note by him in it, as follows: "This beautifully clean perfect copy of the first edition of Troilus and Cressida with the preface has never been in any sale, and is perfectly genuine throughout, having been cut out by myself from a volume of tracts collected and bound at the period. This first edition is very rare in any state, but is most particularly so when quite complete with the prose preface, which is omitted in all copies of the second edition of the same year, and is only found in some copies of the first. Not more than three complete copies are known to exist. The present copy has the reading *thrice-repeated*, considered by Mr. Collier to be peculiar to the duke of Devonshire's." The British Museum has also the other variety. Steevens reprinted it in his *Twenty plays*, iii. The preface, above named, indicates that these quartos were sold for a "testerne," or six pence.

Vol. XXXVIII. Pericles. First edition. 1609. BPL.

Garrick's copy is in the British museum, and Malone's in the Bodleian. Stevens's is now in the Boston public library. Winsor's *Shakespeare bibliog.*, p. 56, and *Boston public library Monthly reports*, May, 1877.

Vol. XXXIX. Pericles. Second edition. 1609.

Critics differ as to this being a new impression with variations of text from the same forms as the previous, or an absolutely distinct edition. Cf. Winsor's *Shakespeare bibliog.*, p. 57. The king's copy in the British museum is of this variety.

Vol. XL. Titus Andronicus. 1611.

The king's copy in the British museum is perfect, but the Garrick copy lacks the genuine title, as does the Barton copy in the Boston public library, a fac-simile by Harris being supplied. It was reprinted by Stevens in his *Twenty plays*, iii.

Vol. XLI. Pericles. 1611.

Halliwell gives a fac-simile of the title in his folio ed. of *Shakespeare*, xvi. 72. He secured the only copy known, probably lacking two leaves, which had been lost sight of since 1804, but is now in the British museum. Halliwell's note in this copy is as follows: "Although the present volume wants two leaves in sheet D (unless, indeed, the omission is to be ascribed to the printer, the catchwords being right), it is of great literary curiosity and importance, being not only unique, but unused by and unknown to all the editors of Shakespeare. Mr. Collier is the only one who even names it, at first with doubt as to its existence, and afterwards only on my information. The present is no doubt Edwards's copy, which sold in 1804 for what was in those days the large price of £14, since which time it seems to have disappeared until purchased privately by me."

✓ **Vol. XLII. Hamlet. 1611.**

Heber's copy is now in the Boston public library. The Daniel copy, afterward Tite's, is now the property of Mr. Furness, who in his *Hamlet*, ii. 34, points out variations in two copies of this edition. E. G. Assay of Chicago has a copy. The British museum copy was Garrick's. Stevens reprinted it in his *Twenty plays*, iv.

Vol. XLIII. Richard the Third. 1612.

The copy in the British museum is in the king's library. A copy once owned by Dyce, and another formerly belonging to Stevens, are in the Lenox library. Mr. Furness has a copy. Reprinted in Stevens's *Twenty plays*, iii.

The next edition, 1622, is not given in this series; but Halliwell has inscribed the following note in a copy of it in the British museum: "The only curiosity of this imperfect copy of the 1622 edition of Richard the Third arises from the circumstance of the title-page being perfect, the imprint being almost invariably cut off. Indeed, so rare is it to meet with a copy with the date of 1622, Mr. Collier, in his ed. of Shakespeare, declares that 'the existence of a copy of that date is more than doubtful.' There are, I believe, two copies in the British museum, the imprints of both of which are imperfect."

Vol. XLIV. Henry the Fourth. 1613.

Stevens's copy with his MS. notes is in the Lenox library, and he reprinted it in his *Twenty plays*, ii. Another copy, once owned by Stevens, is in the British museum, where is also another copy with this note by Halliwell: "This copy wanting the last leaf should be preserved with my other copy, which is perfect, on account of the curious variations in sheet H which, in this one, was evidently corrected after the other was struck off. Thus at sig. H. 1, line 5, from bottom, the arrangement of the line, 'Were it good,' is corrected, and at sig. H. 4, verso, line 4, where every other copy of this edition reads, 'He came but to the duke of Lancaster.'" See note under 1845, no. 6.

Vol. XLV. Richard the Second. 1615.

There are originals in the Boston public and Lenox libraries. Reprinted in Stevens's *Twenty plays*, ii.

Vol. XLVI. Romeo and Juliet. No date, and without Shakespeare's name.

Some copies have Shakespeare's name on the title, as given in the fac-simile in the introductory volume of this series, and in Winsor's *Shakespeare bibliog.*, p. 67 and pl. 52.

Vol. XLVII. Merry wives of Windsor. 1619.

The British museum copies are Garrick's and the king's. The Boston public library, the Lenox, and other American libraries have originals. Winsor's *Shakespeare bibliog.*, p. 49. Reprinted in Stevens's *Twenty plays*, i.

Vol. XLVIII. Othello. 1622. BPL.

Halliwell gives a fac-simile of the title and preface in his folio *Shakespeare*, xv. 126. There are copies in the Boston public and Lenox libraries. In the British museum, Garrick's copy is imperfect, and another copy is slightly so. Reprinted by Stevens in his *Twenty plays*, iv.

1863.

- ✓ 1. **Halliwell-Phillipps, J. O.** The last days of William Shakespeare. [London. 1863.] sq. 24°. **HC. BPL.**

A reprint from the St. James's magazine for June, 1861. Believed to be "the first paper in which the gardens of Shakespeare were brought before the notice of the public."

2. [**Halliwell-Phillipps, J. O.**] A brief guide to the gardens of Shakespeare and a prospectus of the Shakespeare fund. Chiswick press. 1863. 8°. **BPL.**

- ✓ 3. [**Halliwell-Phillipps, J. O.**] A brief hand-list of the collections respecting the life and works of Shakespeare, and the history and antiquities of Stratford-upon-Avon, formed by the late Robert Bell Wheeler, the historian of Stratford, and presented by his sister, Miss Wheeler, to that town, to be preserved forever in the Shakespeare library and museum. London. 1863. 8°. **BPL.**
"One hundred copies printed."

4. The rose, the shamrock, and the thistle. No. 1-10, Feb. to Nov. 1863. **BPL.**

Halliwell began in the February number a series of "Roundabout letters from Stratford-on-Avon."

- ✓ 5. **Halliwell-Phillipps, J. O.** A descriptive calendar of the ancient manuscripts and records in the possession of the corporation of Stratford-upon-Avon, including notices of Shakespeare and his family, and of several persons connected with the poet. London. 1863. f°. **BPL.**

"Limited to seventy-five copies." Supplement to Halliwell's folio edition of Shakespeare. It covers records from the thirteenth century to 1750, now preserved in the Henley street house.

- ✓ 6. **Shakespearean facsimiles**; a collection of curious and interesting documents, plans, signatures, etc., illustrative of the biography of Shakespeare and the history of his family; from the originals chiefly preserved at Stratford-on-Avon. Facsimiled by E. W. Ashbee. Selected by J. O. Halliwell [-Phillipps]. London. 1863. f°. **BPL.**

"Only thirty copies of this work printed. J. O. Halliwell, November, 1863."

The text descriptive of the 16 plates is brief.

- ✓ 7. **Wheeler, Robert B.** An historical account of the birthplace of Shakespeare. Reprinted from the edition of 1824, with a few prefatory remarks by J. O. Halliwell [-Phillipps], Esq., Stratford-on-Avon. Sold at the poet's birthplace. 1863. 8°. **BPL.**

- ✓ 8. **Halliwell-Phillipps, J. O.** An historical sketch of the provincial dialects of England, illustrated by numerous examples. Albany. 1863. 8°. **BPL.**
This is a reprint of the London edition of 1847.

- ✓ 9. **Halliwell-Phillipps, J. O.** Roundabout notes, chiefly upon the ancient circles of stones in the Isle of Man, from rough pencillings dotted down in the summer of 1862. London. 1863.
One hundred copies printed.

1864.

1. **Halliwell-Phillipps, J. O.** Some account of a singular and unique collection of early penny merriments and histories, printed at Glasgow, 1695-8. In the possession of J. O. Halliwell. [London.] 1864. sq. 24°. **HC.**

"Twenty-five copies printed." The introductory note says of the pieces enumerated, "They are all, I believe, so far as is known, unique."

- ✓ 2. **Halliwel-Phillipps, J. O., editor.** Stratford-upon-Avon in the times of the Shakespeares, illustrated by extracts from the council books of the corporation, selected especially with reference to the history of the poet's father. Illustrated with facsimiles of the entries respecting John Shakespeare, executed by E. W. Ashbee, engraved on wood by J. H. Rimbault. London. 1864. f°. **BPL.**

Marked in MS.: "Thirty copies. J. O. H."

- ✓ 3. **Halliwel-Phillipps, J. O.** An historical account of the New Place, Stratford-upon-Avon, the last residence of Shakespeare. London. 1864. f°. **HC. BPL.**

Presentation copy to W. G. Medlicott.

A printed slip, pasted in the book, says it was printed at the author's expense, and is forwarded to all who subscribed five pounds and upwards to the Shakespeare fund, in the hope that it will be considered to prove decisively the authenticity of the estates purchased by their subscriptions.

- ✓ 4. **Halliwel-Phillipps, J. O., editor.** Extracts from ancient subsidy rolls, showing the values of goods and lands upon which assessments were made in respect to the inhabitants of Stratford-upon-Avon. London. 1864. sm. 4°. **BPL.**

Ten copies only printed.

Halliwel says of his plan of issuing ten copies only: "The limitation to ten copies may seem very exclusive, but it must be recollected that I shall have to collate, register, and certify every copy, and my time is so much occupied I could hardly undertake this were the number more extensive." — Halliwel's *Shakespeareana*, 1867, p. 30.

- ✓ 5. [**Halliwel-Phillipps, J. O.**]. A hand table of regnal years: for the use of enquirers into the history of the Shakespeares. London. 1864. 80.

Marked in MS.: "Only fifteen copies printed; only ten copies preserved; five having been destroyed by me, 5 Dec. 1864. J. O. H."

6. **Malone, Edmund.** Original letters to John Jordan, the poet, now first printed from the autograph manuscripts preserved at Stratford-upon-Avon. Edited by J. O. Halliwel [-Phillipps]. London. 1864. 4°. **BPL.**

Marked in MS.: "Ten copies only. J. O. H."

7. **Malone, Edmund.** Correspondence with the Rev. James Davenport, D.D., Vicar of Stratford-upon-Avon. Edited by J. O. Halliwel [-Phillipps]. London. 1864. 4°. **BPL.**

Marked in MS.: "Ten copies only. J. O. H."

8. [**Baldwin, William**]. Beware the cat, 1570. An exceedingly rare and curious rhapsody, containing matters illustrative of the history of the stage, and of the writings of Shakespeare. [Edited by J. O. Halliwel-Phillipps.] 3 pt. [London.] 1864. sm. 4°. **HC.**

Marked in MS.: "Ten copies only. Number three. J. O. H." The dedication is signed "G. B.," the initials of Gulielmus Baldwin. Of the three editions of this book no copy of the first (printed in 1551, according to Halliwel, 1561 according to Ritson and Collier) exists, while of the other two printed in 1570 and 1584 no perfect copy is known. The editor says he has followed in printing "a modern transcript, in which, it is to be feared, there are some misreadings." The chief interest of the work is the allusions in it to witches, which are illustrative of the play of *Macbeth*. — See Collier's *Bibliog. acct. of early Eng. lit.*, i. 54-58; Arber's *Transcript of the registers of the company of stationers of London*, i. 179.

9. **Halliwel-Phillipps, J. O., editor.** Extracts of entries respecting Shakespeare, his family and connexions, carefully taken from the original parish registers preserved in the church of the holy Trinity, at Stratford-upon-Avon. London. 1864. sm. 4°. **HC.**

Marked in MS.: "Ten copies only. J. O. H."

10. **Halliwel-Phillipps, J. O.** Was Nicholas ap Roberts that butcher's son of Stratford-upon-Avon, who is recorded by Aubrey as having been an acquaintance of Shakespeare in the early days of that great poet? London. 1864. sq. 12°. **BPL.**

Marked in MS.: "Ten copies only. J. O. H."

- ✓ 11. **Jordan, John, the Stratford poet.** Original collections on Shakespeare and Stratford-upon-Avon. Selected from the original manuscripts written about the year 1780, by J. O. Halliwel [-Phillipps]. London. 1864. 4°. **BPL.**

"Ten copies printed."

12. **Halliwel-Phillipps, J. O., editor.** Cotemporary depositions respecting an affray at Norwich in the year 1583, in which Queen Elizabeth's company of players, then acting at the Red Lion Inn, were involved. London. 1864. sq. 12°. **BPL.**

Twenty-five copies were printed. "Ten selected copies only preserved. The rest destroyed by me, 11 Jan. 1865. J. O. H."

- ✓ 13. **Shakespeare memorial.** S. O. Beeton, London. f°. **BPL.**

"The documents quoted and the dates given are almost in every instance taken from Mr. Halliwel's works." This was issued in two styles, one at a shilling with a chromo, and again with four chromos. It was compiled by Mary Eliza Rogers, according to Mr. Timmins.

1865.

1. **Halliwel-Phillipps, J. O.** Some account of Tofte's Alba, 1598. An extremely rare poem, containing the earliest extrinsic notice of Shakespeare's comedy of *Love's labour's lost*. London. 1865. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Fifteen Copies destroyed 14 Feb. 1866. Ten only preserved. J. O. H."

The editor knows of but two copies of the original, one sold at Caldecott's and again at Bright's sale, and the other at Charlemont House, Dublin. The part containing the allusion to the Shakespearian play is quoted at length, p. 12.

2. **West, Eliza M., compiler.** Shaksperian parallelisms, chiefly illustrative of *The tempest* and *A midsummer night's dream*, collected from Sir Philip Sydney's *Arcadia*. [Edited by J. O. Halliwel-Phillipps. London.] 1865. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Fifteen Copies destroyed, 14 Feb. 1866. Ten Copies Only Preserved. J. O. H."

These citations follow the 1598 ed. of the "*Arcadia*."

3. **Field, Nathan.** The remonstrance of Nathan [iel] Field, one of Shakespeare's company of actors, addressed to a preacher in Southwark [Mr. Sutton], who had been arraigning against the players at the Globe theatre in 1616. Now first edited from the original manuscript [by J. O. Halliwel-Phillipps. London.] 1865. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Ten Copies only preserved. The rest destroyed, 1865. J. O. H."

There is an account of Field in Collier's *Memoirs of the principal actors in the plays of Shakespeare*, London, 1846, pp. 206-223.

4. **Clopton, Sir Hugh.** The will of Sir Hugh Clopton, of New Place, Stratford-upon-Avon, and citizen, mercer, and alderman of London, 1496. Now first printed from the original record. [Edited by J. O. Halliwel-Phillipps. London.] 1865. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Five Copies destroyed by me, 18 Nov. 1865. Ten Copies burnt."

at the fire at the British Museum in July, 1865. Ten Copies only preserved."

5. [Herbert, Sir Gerrard]. A copy of a letter of news written to Sir Dudley Carleton, at the Hague, in May, 1619, containing a curious account of the performance of the drama of Pericles at the English court. [Edited by J. O. Halliwell-Phillipps. London.] 1865. sq. 24°. HC.

"Strictly limited to twenty-five copies." Marked in MS.: "Fifteen Copies destroyed by me 5 April, 1865. Ten only preserved. J. O. H."

The editor says in a note: "I suspect that no complete copy of Pericles has been preserved, otherwise it is difficult to account for the popularity of a drama, which though artistically constructed, and certainly by Shakespeare, is in its present mutilated form, one of his worst pieces."

- ✓ 6. Halliwell-Phillipps, J. O. Some account of Robert Chester's Loves martyr, or Rosalins complaint, a very rare volume published in 1601, including a remarkable poem by Shakespeare. The facsimiles by E. W. Ashbee. London. 1865. sm. 4°. HC.

"Limited to twenty-five copies." Marked in MS.: "Ten Copies only preserved. J. O. H."

The fac-similes give pp. 170-172 of the original, which contain the "Let the bird of lowest lay," ending with "Threnos," and signed "William Shake-speare," and also the subordinate title, introducing the commendatory verses. Cf. no. 2 of the *Bibliographical contributions* of the library, p. 9.

- ✓ 7. [Halliwell-Phillipps, J. O., editor]. Two indentures respecting the Cage, a house in High street, Stratford-on-Avon, inhabited by Thomas Quiney, son-in-law to Shakespeare, 1616-1633. Now first printed from the original manuscripts. [London.] 1865. sq. 24°. HC.

"Strictly limited to twenty-five copies." Marked in MS.: "Ten Copies only preserved. J. O. H."

8. [Bodenham, John, compiler]. Those songs and poems from the excessively rare first edition of Englands Helicon, 1600, which are connected with the works of Shakespeare. Edited by J. O. Halliwell [Phillipps]. London. 1865. sm. 4°. HC.

"Limited to twenty-five copies." Marked in MS.: "Ten Copies only preserved. The rest destroyed, 1865. J. O. H."

Bodenham was the compiler of the original collection from which these songs were extracted, one of which, "The passionate shepheards song," signed "W. Shakespeare" is given in facsimile. The editor says that but three copies of the 1600 edition are known, one in the Bodleian, a second sold at auction in 1856, and one the property of W. C. Hazlitt. The present selection gives a list of the names of the authors of the pieces in the original collection, following a MS. in the British Museum, MS. Harl. 280. In this, "On a day alack the day," being the song above referred to, is assigned to Shakespeare; but "My flocks feed not" is left without name, though Taggard had assigned it — incorrectly Halliwell thinks — to Shakespeare in 1599. The volume closes with an index to authors' names, and to first lines, referring for pages to Brydges' reprint of the original, 1812, which followed the 1614 edition.

See Bohn's *Louder's*, 226; Collier's *Bibliog. acct. of early Eng. lit.*, i. 90-93; Hazlitt's *Bibliog. of old Eng. lit.*, 43.

9. [Halliwell-Phillipps, J. O., editor]. The abstract of title to the house in Henley street, Stratford-upon-Avon, in which Shakespeare was born, drawn up by the vendor's solicitors when the premises were about to be sold in 1847; the first document recited being the poet's will of 1616. London. 1865. sm. 4°. HC.

Marked in MS.: "Ten Copies Only. J. O. H."

The editor says, "The object was to prove the history of the descent of the estate from the great poet."

- ✓ 10. [Rich, R.]. Newes from Virginia. (1610.) A poetical tract, describing the adventures supposed to be referred to in Shakespeare's Tempest. Reprinted from a copy believed to be unique. Edited by J. O. Halliwell [Phillipps]. London. 1865. sq. 24°. HC.

"Strictly limited to twenty-five copies." Marked in MS.: "I destroyed fifteen Copies, 18 Nov. 1865. J. O. H. Ten selected Copies only preserved."

With a reproduction of the original title-page, as follows: —

"Nevves from Virginia. The lost flocke triumphant. With the happy Arriuall of that famous and worthy Knight *St Thomas Gates*: and the well reputed and valiant Capitaine *Mr Christopher Newport*, and others, into England. With the manner of their distresse in the Iland of *Deuils* (otherwise called *Bermoothaus*) where they remayned 42. weekes, and builded two Py-naces, in which they returned into *Virginia*. By R. Rich, Gent., one of the Voyage. LONDON Printed by *Edw: Alde*, and are to be solde by *John Wright*, at Christ-Church dore. 1610."

This little poem was entered in the Stationer's Registers, Oct. 1, 1610 (cf. *Arber's Transcripts*, p. 200, b.), and Halliwell follows a copy, which he found in 1864 in the Earl of Charlemont's library at Dublin, bound up with others "in a thick port quarto volume." This volume escaped the fire, June 29, 1865, which destroyed the greater part of the Charlemont library in the auction rooms in London, and made part of the sale, Aug. 11, 1865, of those saved, bringing £63. *Allibone's Dictionary*, ii. 1788.

There was a second private reprint of this tract in 1874. It was again reprinted in 1878 in Neill's *Early settlement of Virginia and Virginola*. The latter name was applied to the Bermudas. In July, 1610, Strachey, who was with Gates, wrote at Jamestown his *True repository of the wreck and redemption of Sir Thomas Gates*, etc., which is printed in Purchas's *Pilgrims*, iv. It gives an account of the wreck of Somers and his companions in the "Sea Vulture" at Bermuda, July, 1609, and of the arrival in Virginia. Cf. *Tyler's American literature*, i. 42.

11. Halliwell-Phillipps, J. O. A nominal index to [his] Descriptive calendar of the ancient records of Stratford-on-Avon. London. 1865. 80.

"Ten copies only."

- ✓ 12. Halliwell-Phillipps, J. O. A levy made in July, 1697, for the relief of the poor at Stratford-on-Avon; the earliest one yet discovered. Now first printed from the original MS. London. 1865. 40.

"Ten copies only."

13. Halliwell-Phillipps, J. O., editor. A selection from an unpublished glossary of provincial words in use in Warwickshire in the early part of the present century. London. 1865. sq. 120.

"Ten copies only. I destroyed 15, 8 Nov. 1865."

- ✓ 14. Halliwell-Phillipps, J. O., editor. Extracts taken from the vestry book of the church of the holy Trinity at Stratford-on-Avon, containing entries illustrative of the history of that church, with several notices of the Shakespeare family. London. 1865. sm. 40.

"Ten copies only."

15. Jordan, John, of Stratford-on-Avon. Original memoirs and historical accounts of the families of Shakespeare and Hart, deduced from an early period, and continued down to the present year, 1790. London. 1865. 40.

"Ten copies only."

16. Halliwell-Phillipps, J. O., compiler. Collectanea respecting the birth-place of Shakespeare at Stratford-on-Avon, copied from the manuscript collections of R. B. Wheler. 1862. With a few additions by J. O. Halliwell [Phillipps]. London. 1865. sm. 40. HC.

Marked in MS.: "Ten Copies Only. J. O. H."

1866.

- ✓ 1. Halliwell-Phillipps, J. O. A handbook index to the works of Shakespeare, including references to the phrases, manners, customs, proverbs, songs, particles, &c., which are used or

alluded to by the great dramatist. London. 1866. 80. **HC.**

Marked in MS.: "Fifty copies only. J. O. H." This supplements the verbal indexes of Twiss and of Clarke to the plays, as it includes references to the poems and to "numerous important allusions" necessarily left unnoticed by the others. It is "simply a copy of a manuscript compiled for private use."

2. **Halliwell-Phillipps, J. O.** Some account of the popular belief in animated horse-hairs, alluded to by Shakespeare in the play of Antony and Cleopatra. [London.] 1866. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Fifteen copies destroyed, 9 April, 1866. Ten only preserved. J. O. H."

3. **Halliwell-Phillipps, J. O.** A discovery that Shakespeare wrote one or more ballads or poems on the Spanish armada. [London.] 1866. sm. 4°. **HC.**

"Strictly limited to twenty-five copies." Then in MS.: "Fifteen copies destroyed, 9 April, 1866. Ten only preserved. J. O. H."

The evidence for the "discovery" is drawn from Henry Chettle's *Englandes mourning garment*. London. 1603.

4. **Halliwell-Phillipps, J. O., editor.** Abstracts and copies of indentures respecting estates in Henley street, Stratford-on-Avon, which illustrate the topography and history of the birth-place of Shakespeare. London. 1866. sm. 4°. **HC.**

Marked in MS.: "Ten Copies Only. J. O. H."

The papers here noticed "were discovered among the sweepings of a solicitor's office at Birmingham in 1864, — of value in an investigation of the history of the birthplace [of Shakespeare], one, 20th of September, 1575, referring to a house next 'to the tenement of John Shakesper yeoman'; another, 20th of July, 1609, in which the Birth-place is referred to as 'the tenement late of William Shakespere,'" and as Shakespeare did not die till 1616, Mr. Halliwell adds he "has not satisfied himself of its correct interpretation."

5. [**Pettie, George**]. The tale of Tereus and Progne, referred to several times by Shakespeare. Edited by J. O. Halliwell [-Phillipps]. London. 1866. sq. 24°. **HC.**

Marked in MS.: "Ten Copies only. J. O. H."

This tale is the second of a collection of twelve with the title, *A Petite Pallace of Pettie His Pleasure*, first printed in 1576; Halliwell in his preface says, "it has long been my conviction that he [Shakespeare] was well acquainted with the 'Petite Palace', etc., and that the tale of Tereus and Progne, as given in that curious work, was the version in his recollection when he referred to the story, in the second act of Cymbeline." — See Brydges' *Brit. bibliog.*, ii. 392-396; Collier's *Bibliog. acc't of early Eng. lit.*, iii. 107 n; Hazlitt's *Bibliog. of old Eng. lit.*, 455; Warton's *Hist. of Eng. poet.*, iv. 336, 337.

6. **Booke (The)** of merry riddles, together with proper questions, and witty proverbs, to make pleasant pastime. Now first reprinted from the unique edition printed at London in 1660. [Edited by J. O. Halliwell-Phillipps.] London. 1866. sq. 24°. **HC.**

"Strictly limited to twenty-five copies." Marked in MS.: "Fifteen copies destroyed, 9 April, 1866. Ten only preserved. J. O. H."

With a reproduction of the original title-page. Halliwell in his *Old-book rarities* says of the original edition "Unique. The few early editions of this work are only preserved in single copies. It is mentioned by Shakespeare as popular in his day." It is mentioned as early as 1575. Apparently "the Book of Riddles" mentioned by Slender, one of the characters in "The merry wives of Windsor." The "proper questions and witty proverbs" mentioned on the title-page are wanting, but the book is nevertheless obviously complete as it has the word *Finis*. — See Collier's *Bibliog. acc't of early Eng. lit.*, ii. 228, iii. 322-326; Hazlitt's *Bibliog. of old Eng. lit.*, 508, 509; Bohn's *Lowndes*, 2093.

- ✓ 7. **Nicholson, S.** Acolastus his afterwritte, a poem, 1600, containing singular plagiarisms from Shakespeare. London. 1866. 4°. **HC.**

"Ten copies only."

8. **Halliwell-Phillipps, J. O., editor.** Extracts from the accounts of the chamberlains of the borough of Stratford-on-Avon, from the year 1585 to 1608. Selected and edited from the original manuscripts. London. 1866. sm. 4°. **HC.**

"Ten copies only."

- ✓ 9. **Halliwell-Phillipps, J. O., editor.** The accounts of the chamberlain of the borough of Stratford-on-Avon, from the year 1590 to the year 1597; now first edited from the original manuscripts. London. 1866. sm. 4°. **HC.**

"Ten copies only."

10. **Halliwell-Phillipps, J. O., editor.** Papers respecting disputes which arose from incidents at the death-bed of Richard Tarleton the actor in the year 1588. London. 1866. sq. 12°. **HC.**

"Ten copies only."

11. **Halliwell-Phillipps, J. O., editor.** The last will and testament of John Davenant, vintner, of the Crown tavern, Oxford, the house at which Shakespeare lodged in some of his journeys between Stratford-on-Avon and London. London. 1866. sq. 12°. **HC.**

"Ten copies only."

1867.

- ✓ 1. **Halliwell-Phillipps, J. O.** A list of works illustrative of the life and writings of Shakespeare, the history of Stratford-on-Avon, and the rise and progress of the early English drama, printed for very limited and private circulation at [his] expense. 1850-1866. London. 1867. sm. 80. **HC. BA. BPL.**

Presentation copy to Sir William Tite. The preface contains Halliwell's defence of his policy of issuing books in very small editions, — the only practicable plan, "in the hands of one at least, who is not a millionaire," to preserve a "vast quantity of Shakespearian material, too diffuse or too technical for the general public."

2. **Hunter, Joseph.** An extract from [his] unpublished diary, containing an account of a visit made to Stratford-on-Avon in 1824. [Edited by J. O. Halliwell-Phillipps.] London. 1867. sq. 24°. **HC.**

Marked in MS.: "Ten Copies only. J. O. H."

The editor contributes a supplemental note to the effect that Shakespeare was buried in the chancel of the church because he was part-owner of the tithes of the parish.

There have been various other accounts of Stratford and its localities associated with Shakespeare, — by J. C. M. Bellow, F. W. Fairholt, C. V. Grinfield, R. E. Hunter, W. Irving (in his *Sketch book*), J. M. Jephson, G. May, J. Walter, R. B. Wheler, J. R. Wise, etc.

3. **Halliwell-Phillipps, J. O.** An attempt to discover which version of the Bible was that ordinarily used by Shakespeare. London. 1867. sq. 24°. **HC.**

Marked in MS.: "Ten copies only. J. O. H."

The conclusion reached is that it was the Geneva version.

4. **Juan Manuel of Castile.** The Moorish marriage, bearing some similarity to the story of Shakespeare's Taming of the shrew. Being one of the *enxemplos* from *El libro de Patronio* ó *El conde Lucanor*. Written in 1332. Translated from the Spanish by F. W. Cosens. [Edited by J. O. Halliwell-Phillipps.] *Eng. and Span.* London. 1867. sq. 24°. **HC.**

Marked in MS.: "Ten Copies Only. J. O. H."

- ✓ 5. **Halliwell-Phillipps, J. O., compiler.** A lineal concordance to the poems of Shakespeare; the paginal references adapted to the variorum

edition of Malone, published in 1821. London. 1867. 80. **HC.**

Marked in MS.: "Ten copies only. J. O. H."

Since this book was printed there has been a concordance to Shakespeare's poems published, compiled by Mrs. H. H. Furness of Philadelphia. A MS. concordance by Mrs. O. W. Wheeler is in the Barton collection, Boston public library.

The present concordance italicizes an important word in each line, and then alphabetizes the lines by such italicized word, giving the page of Malone's *Variorum* of 1821, at the end of each line.

- ✓ 6. **Sabie, Francis.** The fisherman's tale, of the famous act, life, and love of Cassander, a Grecian knight. Founded on the story used by Shakespeare in the Winters tale. By Francis Sabie, 1595. Printed from an early manuscript copy preserved in the Bodleian library, Oxford. [Edited by J. O. Halliwell-Phillips.] 2 pt. London. 1867. sm. 40. **HC.**

Marked in MS.: "Ten Copies Only. J. O. H."

The second part has the title:—"Flor's fortune," or "The second part and finishing of The fisher-mans tale. Containing The strange accidents which chanced to Flora and her supposed father Ithirus: also the happy meetings with her desired Cassander. 1596."

At the end of the first part is the signature "Iohn Ramsey," of the second "I. R."; probably the copyist.

This is Robert Greene's *Pandosto, the triumph of time*, afterwards called *Dorastus and Fawnia*, turned into blank verse.—See Brydges' *Brit. bibliog.*, i. 488-503; Collier's *Bib. acc't of early Eng. lit.*, iv. 1; Hazlitt's *Bibliog. of old Eng. lit.*, 530. For another version see S. S.'s *Fortune's tennis ball*, 1859.

7. **Halliwell-Phillips, J. O., editor.** Notices of players acting at Ludlow, selected from the original manuscripts belonging to the corporation of that town. London. 1867. sq. 240. **HC.**

Marked in MS.: "Ten Copies Only. J. O. H."

The entries begin 1554 and end 1627, mostly recording gratuities to different bands of players.

8. [**Halliwell-Phillips, J. O.**] A hand list of a curious and interesting collection of early editions of the works of Shakespeare, mostly printed before the appearance of the first folio edition of 1623. West Brompton. 1867. 80.

"For private circulation only."

9. **Stratford-upon-Avon, Eng.—Court of record.** Selected extracts from the ancient registry of the causes tried in the court in the time of Shakespeare; including many entries respecting the poet's family. [Edited by J. O. Halliwell-Phillips.] London. 1867. 80. **HC.**

Marked in MS.: "Ten Copies Only. J. O. H."

10. **Halliwell-Phillips, J. O., editor.** Extracts from the accounts of the chamberlains of the borough of Stratford-on-Avon, from the year 1609 to 1616. Selected and edited from the original manuscripts. London. 1867. sm. 40.

"Ten copies only." This is reported to me by Mr. Timmins of Birmingham.

1868.

- ✓ 1. **Halliwell-Phillips, J. O.** A catalogue of a small portion of the engravings and drawings illustrative of the life of Shakespeare, preserved in the collection formed by J. O. Halliwell. [London.] 1868. sm. 40. **HC. BA. BPL.**

"Printed for private reference," and "for presents only." This was a presentation copy to W. G. Medlicott.

The preface says the catalogue shows "a very small portion of the largest collection of engravings and drawings, illustrative of the life of Shakespeare, which has ever been formed." The specialties are: Anne Hathaway's Cottage; Shakespeare's Birth-place; Charlecote; New Place; Engraved Portraits; Stratford-on-Avon; The Church; The Crab-tree; Shakespeare's Journeys; The neighborhood of Stratford; London; Warwickshire; Windsor; miscellaneous; monument; maps and plans; actors and theatres; chapel of the Guild.

The catalogue names a proof impression of the Droeshout print of Shakespeare which is described in Scribner's *Monthly*, Sept. 1875.

- ✓ 2. **Halliwell-Phillips, J. O.** Selected notes upon Shakespeare's comedy of *The tempest*. London. 1868. sm. 40. **HC. BPL.**

"Fifty copies printed."

One of a contemplated series of critical and philological material on the several plays of Shakespeare, gathered subsequent to the printing of Mr. Halliwell's folio edition of Shakespeare.

- ✓ 3. **Halliwell-Phillips, J. O.** Selected notes upon Shakespeare's tragedy of *Antony and Cleopatra*. London. 1868. sm. 40. **HC. BPL.**

"Fifty copies printed."

See note under No. 2 of this year.

- ✓ 4. **Halliwell-Phillips, J. O.** A catalogue of the books, manuscripts, works of art, antiquities, and relics, illustrative of the life and works of Shakespeare, and of the history of Stratford-upon-Avon, which are preserved in the Shakespeare library and museum in Henley street. London: printed for the Shakespeare fund. 1868. 80. **BPL.**

This includes the "Wheler collection."

1869.

No publications discovered.

1870.

1. [**Halliwell-Phillips, J. O., compiler.**] A collection of ancient documents respecting the office of master of the revels, and other papers relating to the early English theatre, from the original manuscripts formerly in the Haslewood collection. London. 1870. 80. **HC.**

Marked in MS.: "Eleven Copies Only. J. O. H."

The running title is "Dramatic Records."

2. **Tragedy (A)** of King Richard the Second, concluding with the murder of the duke of Gloucester at Calais. A composition anterior to Shakespeare's tragedy on the same reign, now first printed from a contemporary manuscript. [Edited by J. O. Halliwell-Phillips.] London. 1870. 80. **HC.**

Marked in MS.: "Eleven Copies Only. J. O. H."

3. **Greene, Robert.** Groats-worth of wit, bought with a million of repentance. Reprinted from an original copy of the extremely rare edition of 1596, preserved in the library of Henry Huth. [Edited by J. O. Halliwell-Phillips.] London. 1870. sm. 80. **HC.**

Marked in MS.: "Eleven Copies Only. J. O. H." With a reproduction of the original title-page. On p. 55 is the earliest reference to Shakespeare. Mr. H.-P. writes (1881) that he discovered last year a copy of the original edition in the library of Peterborough Cathedral, the third one yet found.

4. [**Halliwell-Phillips, J. O.**] A list of the contents of the drawers in my study, and in two other rooms. Index to objects of research. A list of regnal years, 1558 to 1649. London. 1870. 80. **HC.**

This pamphlet is without title, and is dated 9th April, 1870; was "printed for my own personal convenience," but it may "lead any one to try the experiment of what may be called the drawer-system." Speaks of his having "abandoned the critical study of the text of Shakespeare."

1871.

No publications discovered.

1872.

1. **Shakespeare, William.** The probate copy of [his] will, now first printed from a manuscript copy of it made by the Rev. Joseph Greene, of Stratford-on-Avon, in 1747. [Edited by J. O. Halliwell-Phillipps.] London. 1872. sm. 8o. **HC.**

Marked in MS.: "Fifteen Copies Only Printed." "For private circulation."

Presentation copy to W. G. Medlicott, with autograph letter. There was a photographic fac-simile of the will, edited by J. Hain Friswell, published in London, 1864. The document is also given in Howard Staunton's *Memorials of Shakespeare*, and in Drake's *Shakespeare and his times*, II. Appendix; in Knight's *Biography of Shakespeare*, and in other of the lives. Halliwell appends to his *New Book about Shakespeare*, 1880, a copy of the will, printed for Thomas Rodd, so as to show corrections and interlineations, to which fac-similes of the autographs were attached; the same was also issued by Halliwell separately. See No. 2 under 1851.

1873.

No publications discovered.

1874.

- ✓ 1. **[Halliwell-Phillipps, J. O.]** Illustrations of the life of Shakespeare in a discursive series of essays on a variety of subjects connected with the personal and literary history of the great dramatist. Pt. i. London. 1874. fo. **HC. BA. BPL.**

Among the various woodcuts in the volume are fac-similes of old cuts showing London in the time of Shakespeare. The text contains much about the theatres of that day; p. 45, notes on *The two gentlemen of Verona*; p. 47, on *The Old English Religious Drama*; p. 61, *Unconnected Shakespeares*; p. 65, *Shakespeare's mulberry tree*; p. 70, *New Place*; p. 79, *Shakespeare's manuscripts*; p. 81, *Appendix* of original documents, and reprints of early publications. Halliwell's purposes in this work are explained in his *Shakespeareana*, 1867, p. 55.

2. **Halliwell-Phillipps, J. O.** A fragment of Mr. J. O. Halliwell's "Illustrations of the Life of Shakespeare." For presents only. London. 1874. fol. **BPL.**

Marked in MS.: "Fifty copies only." Documents, found in the Lord Chamberlain's office, illustrating Shakespeare's connection with the Globe and Blackfriars' theatres, London.

1875.

- ✓ 1. **Halliwell-Phillipps, J. O., and others.** Fairy tales, legends and romances illustrating Shakespeare and other early English writers. To which are prefixed two preliminary dissertations. 1. On pigmies. 2. On fairies. By Joseph Ritson. London. 1875. 8o. **HC. BPL.**

"The present republication forms a union of" Ritson's "Fairy tales" and Halliwell's "Illustrations of the fairy mythology of a Midsummer-night's dream," "with certain additions and corrections." Preface by W. C. Hazlitt.

1876.

- ✓ 1. **Halliwell-Phillipps, J. O.** A brief hand-list of the selected parcels in the Shakespearian and dramatic collections of J. O. Halliwell-Phillipps. London. 1876. 8o. **HC. BA. BPL.**

"Privately printed." Presentation copy to W. G. Medlicott. The list exhibit "the kind of ramifications involved by an inquiry into the personal history of Shakespeare, when viewed in connection with the contemporary stage and the circumstances of the times in which he lived."

- ✓ 2. **Halliwell-Phillipps, J. O.** A catalogue of the Shakespeare-study books in [his] immediate library. London. 1876. 8o. **HC. BA. BPL.**

"Privately printed." Presentation copy to W. G. Medlicott. Besides the several plays of Shakespeare, the special headings are Bibliography, Forgeries, Glossaries, History of the Stage, Law, Life of Shakespeare, London and Southwark, Miscellaneous, Old plays, originals and reprints, Poems, Records, Spurious plays, Stratford-upon-Avon, and Warwickshire.

- ✓ 3. **Halliwell-Phillipps, J. O.** A catalogue of the warehouse library of J. O. Halliwell-Phillipps. London. 1876. 8o. **HC. BA. BPL.**

"Privately printed." The books named show for specialities, the following heads: Enclosures, England, Jest books, London, Plays and Theatres, Records, Anonymous Shakesperiana, Editions of Shakespeare, Stage. The "note" says the books "are deposited at the Pantechinon."

- ✓ 4. **Shakespeare, William.** The first edition of Shakespeare. The works of William Shakespeare in reduced fac-simile from the famous first folio edition of 1623. With an introduction by J. O. Halliwell-Phillipps. London. 1876. **BPL.**

Halliwell says in his introduction: "A few of the dramas in the first folio were possibly edited from Shakespeare's original manuscripts. It is certain in several instances Heminge and Condell used printed copies of the old quarto editions." He enumerates the plays in order, and indicates the relative value of the authorities for the text.

The present average value of a perfect copy of the first folio is £500.

"It is not of course pretended that any fac-simile of any old book will in all cases of minute research entirely supersede the necessity of a reference to copies of the ancient impressions."

This is the second reproduction of the first folio by some photographic process. The first was made by Preston, by photolithography, in 1866, was superintended by Howard Staunton, and published in sixteen parts by Day and Son, London. It was of the size of the original, and was delivered bound to subscribers for £8 8s. It has since fallen somewhat in price. It has been complained that in minute particulars it is not always faithful, as in omitting the bar of an *e*, thus making it a *c*, etc. It is said that the present reduced fac-simile is from this earlier one, and not from an original.

The earliest type fac-simile was made in 1807, with "Printed by E. and J. WRIGHT, St. John's Square," on the reverse of title, and "Shakespeare, 1800," as a water mark in the paper. It was said to be edited by Francis Douce. Upcott pointed out 368 errors in it, of which about forty are important. *Notes and queries*, vii. 471, 3d ser. vii. 139. Mr. Furness has Upcott's copy, with his collations, made in 1832. *American bibliopolist*, June, 1875. The **BPL.** has Britton's illustrated copy in four volumes.

The next printed reproduction was begun in 1861 by Lionel Booth, copying the general style of the original, but using a small type, and changing the page to a quarter shape. It was completed, having been issued in three parts, — comedies, histories, tragedies, late in 1864. The Cambridge editors call it probably the most correct reprint ever made. Charles Wright was the editor of it. Some copies have Pericles, copied from the 1664 folio, at the end.

1877.

No publications discovered.

1878.

No publications discovered.

1879.

- ✓ 1. **Halliwell-Phillipps, J. O.** Which shall it be? New lamps or old? Shaxpere or Shakespeare? Brighton. 1879. 8o. **HC. BPL.**

Signed and dated on p. 8: "J. O. HALLIWELL-PHILLIPPS, Hollingbury Copse, Brighton, 4 November, 1879."

- ✓ 2. **Halliwell-Phillipps, J. O.** Memoranda on All's well that ends well, The two gentlemen of Verona, Much ado about nothing, and on Titus Andronicus. Brighton. 1879.

Eighty pages. Mentioned in Cohn's *Shakespeare-Bibliographie*, as are the following numbers, 3, 4 and 5.

- ✓ 3. **Halliwell-Phillipps, J. O.** Memoranda on the tragedy of Hamlet. London. 1879.
- ✓ 4. **Halliwell-Phillipps, J. O.** Memoranda on Love's Labour's Lost, King John, Othello, and on Romeo and Juliet. London. 1879.
- ✓ 5. **Halliwell-Phillipps, J. O.** Memoranda on the Midsummer night's dream, A.D. 1879 and A.D. 1855. Brighton. 1879.

1880.

1. **Halliwell-Phillipps, J. O.** New lamps or old? A few additional words respecting the *e* and the *a* in the name of our national dramatist. Brighton. 1880. 80. **HC. BPL.**

Signed at end and dated thus (p. 23): "J. O. HALLIWELL-PHILLIPPS, Hollingbury Copse, Brighton, January, 1880."

Contains (p. 15) a fac-simile reprint of "Threnos," a poem which Shakespeare contributed to Chester's *Love's Martyr*, 1601, which is signed "WILLIAM SHAKESPEARE."

There was a second edition the same year.

- ✓ 2. **Halliwell-Phillipps, J. O.** Rough list of Shakespearean rarities and manuscript collections at Hollingbury Copse, Brighton, April, 1880. Brighton. 1880.

Fifty copies only. Privately printed.

3. **Halliwell-Phillipps, J. O.** To the Trustees of Shakespeare's birth-place. 1879.

Fifty copies only. Privately printed. This is a letter on the Shakespeare library at Stratford-on-Avon.

✓ Mr. Halliwell-Phillipps printed in 1880 sundry communications in periodicals: *Athenæum*, April 10, on "The life of Shakespeare." *Notes and Queries*, Dec. 18, 1880 on "Shakespearean misprints"; Jan. 17, on an "Old Ballad quoted in King Lear"; Jan. 31 and Aug. 21 on "King Lear, — Lypsbury = Lydbury?"; Oct. 30, "Allusion to Pericles"; Dec. 25, "Curious note on Twelfth night."

1881.

- ✓ 1. **Halliwell-Phillipps, J. O.** [Correspondence with Robt. Browning, president of New Shakespeare society, relative to language used by Mr. Furnivall in speaking of Mr. Halliwell-Phillipps. Dated Jan.-Feb. 1881.] 8 pp. fol. **HC. BPL.**

This was answered by Mr. Furnivall, and two editions, the later one, enlarged, were printed of this answer.

- ✓ 2. **Halliwell-Phillipps, J. O.** Outlines of the Life of Shakespeare. London. Privately printed.

OMISSIONS AND CORRECTIONS.

1839.

5. *Reliquiæ antiquæ*: scraps from ancient manuscripts, illustrative of early English literature and the English language. Edited by Thomas Wright, Esq. and J. O. Halliwell. **BPL.**
- ✓ 6. **Halliwell-Phillipps, J. O.** A letter to Lord Francis Egerton, President of the Camden Society, on the propriety of confining the efforts

of that body to the illustration of a strictly early period of history and literature. London. 1839. 80. **HC.**

Dated, Bodleian Library, Aug. 10, 1839, with Postscript, Aug. 11.

1840.

- ✓ 11. [**Halliwell-Phillipps, J. O., editor**]. *Historia collegii jesu cantabrigiensis*. A. J. Shermanno, olim Præs. Ejusdem collegii. Edidit et notis instruxit J. O. Halliwell, Soc. Reg. Lond., etc. Londini: Veneunt apud Thomam Rodd: Cantabrigiæ. T. Stevenson. MDCCCXL. pp. vi. 43.

There is a Latin dedication to "Josepho Hunter, S. A. S.," and a Latin "Prefatio."

12. **Cambridge Antiquarian Society**. For the encouragement of the study of the history and antiquities of the university town and county of Cambridge.

A prospectus, three printed pages, xv. Laws, etc., signed J. O. Halliwell, Esq., F. R. S., F. S. A., *Secretary*.

13. **Halliwell-Phillipps, J. O.** A catalogue of scientific manuscripts in the possession of J. O. Halliwell, Esq.

A pamphlet, without wrapper, containing a description of 130 books, several of which are volumes of curious old tracts.

1841.

11. See *London Times*, June 12, 1841.

14. [**Halliwell-Phillipps, J. O.**]. A cancelled sheet (pp. xxi.-xxviii.) of *Rishanger's Chronicle*, with notes, 21 March, 1841, to W. H. Black.

1842.

- ✓ 10. **Halliwell-Phillipps, J. O.** An account of the European manuscripts in the Chetham Library of Manchester. By James Orchard Halliwell, F. R. S., etc., Manchester and London. MDCCCXLII.

Describes Instruments, astronomical, etc., as well as MSS.

11. **Halliwell-Phillipps, J. O.** Shakespearean literature. 80. **BPL.**

A separate issue of an article from *The Archaeologist*, January, 1842.

- ✓ 12. [**Halliwell-Phillipps, J. O., editor**]. The jokes of the Cambridge coffee-houses in the seven-teenth century. Cambridge. 1842. 120.

Selected from various jest books of that time, — "fair specimens of books that served in the place which our periodical literature has since supplied."

1843.

5. **Halliwell-Phillipps, J. O., editor**. The foundation documents of Merton college, Oxford, collected by James Heywood, F. R. S. Edited by James Orchard Halliwell, Esq., F. R. S., and honorary member of the Royal Irish Academy. London. 1843.

It contains lithograph portrait of Walter of Merton and woodcut of college arms.

6. **Halliwell-Phillipps, J. O., editor**. A collection of pieces in the dialect of Zummezet. Edited by James Orchard Halliwell, Esq. London. 1843.

Only fifty copies printed. Sixteen pages, prose and poetry, from MSS. Ashmolean, MSS. Lansdowne, *The British Garland*, Collins's *Miscellanies*, etc.

1847.

4. **Halliwell-Phillipps, J. O., editor.** A catalogue of the books bequeathed to Corpus Christi College, Cambridge, (A. D. 1439) by Thomas Markaunt, with their prices. Transcribed from a contemporary register on vellum in the library of that college, with explanatory and historical observations.

This was No. XIV. Miscellaneous communications, part i. pp. 15-20, in the Publications of the Cambridge antiquarian society, 1847, 4°.

1854.

9. **Halliwell-Phillipps, J. O.** On the means adopted to insure the rarity of the privately

printed works of James O. Halliwell, Esq., F. R. S., *etc.* London. For private circulation only. 1854.

1857.

5. **Shakespeare, William.** The famous victories of Henry the fifth. Containing the Honourable Battell of Agin-Covrt. As it was Acted by the Kinges Maiesties Seruants. London. Imprinted by Barnard Alsop, dwelling in Garter place in Barbican. 1617.

A similar photographic reproduction to No. 1 of this year. Mr. Timmins reports a copy as in his possession, with "some pages scarcely legible"; and adds, on Mr. Halliwell's authority, that this, with No. 1, were "among the first attempts to photograph old books, before photolithography and photozincography were used."

•• Since the previous additions were made, Mr. Samuel Timmins, of Birmingham, has furnished the following:—

1840.

- ✓ 11. **Halliwell-Phillipps, J. O.** A few Notes on the History of the Discovery of the Composition of Water. By J. O. Halliwell, Esq., F. R. S., *etc.*, London: Printed and published by Richard and John E. Taylor, Red Lion Court, Fleet Street. 1840. 8°. 8 pp.

Library of Harvard University.

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,

LIBRARIAN.

No. 11.



THE ENTOMOLOGICAL LIBRARIES OF THE UNITED STATES.

BY

SAMUEL HUBBARD SCUDDER,

ASSISTANT LIBRARIAN OF HARVARD UNIVERSITY.

REPUBLISHED FROM THE BULLETIN OF THE LIBRARY OF HARVARD UNIVERSITY,
NUMBER 14.

CAMBRIDGE, MASS.:

UNIVERSITY PRESS: JOHN WILSON AND SON.

1880.

Already issued or in preparation:

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
- *10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.

THE ENTOMOLOGICAL LIBRARIES OF THE UNITED STATES.

BY SAMUEL H. SCUDDER.

The addition to the resources of the University of the entomological library formed by Dr. Hagen during the past fifty years, has prompted an examination of the literature of this department in the principal scientific libraries throughout the country, partly by personal study, partly by correspondence; and, as the result of the examination may prove interesting to others, it is herewith published.

The addition of Dr. Hagen's library to the Museum of Comparative Zoology makes its entomological department by far the most valuable in the country. The card catalogue has 4,279 entries, of which 3,457 represent Dr. Hagen's books, 822 the others, which are almost entirely the gift to the Museum of Professors L. and A. Agassiz. The entire library is judged by Dr. Hagen to contain about 2,000 volumes and 3,000 pamphlets.

About one third of the total space which the library occupies is filled by journals and society publications, among which may be especially noted complete sets of the older magazines, rarely seen in this country. The library is rich in works and papers on Neuroptera and Pseudoneuroptera, groups of insects which have been Dr. Hagen's special study. It contains also a very valuable series of anatomical, physiological, and biological papers; the literature of fossil insects is well represented; and a neglected field—the bibliography of entomology—is unusually perfect from the material collected by Dr. Hagen for his catalogue of 1863. It contains, too, nearly all the works and even minor papers of certain entomologists, such as Linné, Fabricius, Latreille, Thunberg, Fallén, Sahlberg, Panzer, Germar, and many others still living. Since Dr. Hagen entered the Museum, he has formed a special library for North American publications, which is separately kept and already tolerably complete.

Many rare works, and a large number of exceedingly scarce tracts, obtained as opportunity offered during the past fifty years, make the library one of exceptional value. Many of these are the only copies Dr. Hagen has ever seen, and his familiarity with the bibliography of entomology is unrivalled. Fifty years ago, he says, when he purchased his first books, the standards of the day, the cost of entomological works was scarcely one fourth the price now demanded for the same volumes, so that with less than \$10,000, it would then have been possible to form a tolerably complete library. There were then very few students and no competition, and being before the time of cheap and rapid transport, it was possible to buy French books in Germany, and German or English books in France, at very low rates; with the easier facilities of the present day, the formation of a library is a simpler, but from the greater demand and exhausted supply a far more

expensive matter. A memorandum of some of the rarer works in the library is appended.

The College Library is tolerably well represented in entomology for a general library, there being about 450 volumes and 50 or more catalogued pamphlets. These were in large measure selected while Dr. Harris was connected with the library, and mostly represent standard works. There are also in the library many costly voyages in which entomology is represented, but which are not included in this estimate.

Dr. Harris's private library, rarely duplicating works in the College Library, has come into the possession of the Boston Society of Natural History, and forms about one third of its present entomological department, which consists of about 900 volumes and nearly 550 pamphlets. The collection is a miscellaneous one; but contains some rare and valuable works cited in the appendix, and besides these may be mentioned an entire series of the tracts of Peck, Say, and Harris in their original forms. Periodical literature is also fairly represented. But the choicest part of the collection consists of its manuscript material, in which the library is exceptionally rich for North American entomology. It contains three sets of colored illustrations of Georgian insects and their transformations by Abbot (one, a small volume, and probably a copy) coming from the Harris library; another, a thick folio volume, and containing 174 sheets, from Dr. Asa Gray, originally from London; and a third, also in folio, consisting of 193 sheets painted by Abbot for Oemler of Georgia. Next, two small volumes, containing 239 sheets, the original drawings by Hentz for the illustration of his papers on the Spiders of the United States, which, though published by the Society in black, were drawn in color. Besides these, there are all the manuscripts left by Dr. Harris, collected into twenty-four volumes, mostly folios, a full account of which may be found in the Society's Proceedings (vol. xiii., pp. 167, 168).

The next largest public collection of entomological books in this vicinity is that of the Public Library of Boston, which contains about 650 volumes and 75 pamphlets. Periodical literature is very poorly represented; the greater part of the books being standard works, well selected and containing many rare and costly volumes, some not elsewhere found in this vicinity.

The Boston Athenaeum has a small and miscellaneous collection of a little more than 150 volumes and pamphlets, with one or two rare works; and the Cambridge Entomological Club one of nearly 200 volumes and about 500 pamphlets.

It may be well to include in the account of the entomological collections of this vicinity, the private of libraries Mr. Burgess and myself. Mr. Burgess's library, recently formed, contains about 150 volumes

and 300 pamphlets. The anatomy of insects, and systematic works on Diptera, are fairly represented, nearly one half of the library being devoted to these departments.

The entomological portion of my own library consists of 765 volumes and very nearly 2,000 pamphlets. There are only a few serials, the bulk of the library being made up of the less costly general works on each order, and of special collections of papers on Orthoptera, Butterflies, Fossil insects, and the anatomy, morphology, and embryology of insects. In Orthoptera and fossil insects, it contains nearly every thing now procurable, and some very scarce works. In the former, it also contains a separate collection of some thousand illustrations, separately mounted, and systematically arranged, while in anatomy, etc., it is second, in this country, only to the library of the Zoological Museum. Among others will be found complete, or very nearly complete, series of the papers of Herold, Newport, Dufour, Graber, Plateau, Brauer, Weismann, Laboulbène, Thunberg, Selys, Saussure, Stål, Brunner, Wood-Mason, Serville, Murray, A. and H. Dohrn, Girard, Hentz, Harris, Packard, Heer, Oustalet, Brodie, Heyden, Weyenbergh, and Goldenberg; and the Phylloxera papers of the French Academy.

The libraries of Salem are not rich enough in entomological works to require mention. In Providence, Dr. A. S. Packard has a collection of 470 volumes and 550 pamphlets on insects. It is fuller in systematic works on Lepidoptera, Hymenoptera, and Coleoptera than on other orders, but its special value lies in its collection of embryological and morphological papers, comprising very full series of the works of the writers on these topics mentioned in the last paragraph, as well as of Claparède, Metschnikoff, Melnikow, Ganin, Kowalewsky, etc.

The library of Yale College, New Haven, contains about 200 entomological works.

In New York, the Astor Library has about 500 volumes, of which one fourth consists of serials; it contains some costly, but few, if any, very rare works. The New York Academy of Science has a small library in this department, but I have been unable to obtain any figures concerning it.

The Society of Natural Science at Buffalo possesses somewhat over 500 volumes and nearly as many pamphlets on entomology. It is particularly well supplied with works and papers, both old and recent, on Nocturnal Lepidoptera, which have formed the special study of Mr. Grote, the principal officer of the society.

The entomological library at Cornell University has about 150 volumes and 50 pamphlets.

In Philadelphia, we find another entomological centre. The largest library is perhaps that of the American Entomological Society; it is said to consist of 1,728 volumes and 336 pamphlets; but these figures include a considerable number of periodical and other works on general natural history, preserved for the sake of the entomological matter they contain, and may not fairly be compared with the others. Serial entomological publications (at least existing ones) are very completely represented, and there are many costly works.

This library is now in the hall of the Academy of Natural Sciences, which itself possesses 956 volumes on strictly entomological subjects, and 554 pamphlets; all the departments are about equally well represented, but many works are necessarily duplicated in the collection last mentioned, and both owe much of their value to the generosity of the late Dr. T. B. Wilson. The library contains a number of letters written by Say to Melsheimer, from 1813 to 1825.

Dr. J. L. LeConte, of Philadelphia, estimates his private library to consist of about 700 volumes and 800 pamphlets, and it is undoubtedly the most complete library for Coleoptera in the country, very few papers on American beetles being wanted. It is full in this order only, but contains nearly every thing in the shape of monographs, besides many formal works and series of transactions. There are many rare old works, which are of no special use for reference, but valuable as bibliographical curiosities, being scarcely ever met with on sale. It also contains the working copy of the elder Melsheimer's catalogue of U. S. Coleoptera, full of marginal notes, and other interesting relics; and also an immense collection of original drawings, — several thousand in number, of insects of all orders found in the Atlantic States, made principally by Major John LeConte (Dr. LeConte's father) and partly by Abbot, whom he employed as a collector and draughtsman.

In Baltimore, the library of the Peabody Institute has over 800 volumes and about 200 separate pamphlets on entomology. It contains complete series of many entomological journals, and otherwise consists mainly of standard works, well selected, as would be expected with Messrs. Morris and Uhler's supervision. There are few rare books in it, but the more costly and expensive works are well represented. Mr. P. R. Uhler's private library in the same city consists of over 300 volumes and about 500 pamphlets on insects, selected with special reference to Mr. Uhler's specialty, the Hemiptera, but not inconsiderable in other directions, and particularly in Coleoptera and Neuroptera; it is mostly confined to systematic works.

I have been unable to obtain any figures concerning the Congressional Library in Washington, which must be of considerable value, particularly as it includes that of the Smithsonian Institution. Mr. Riley has, however, kindly supplied some notes about it. In serial publications it is, of course, rich; and in miscellaneous works it has a complete collection of entomological books published in America. In foreign works, however (excepting in serials), it is comparatively poor.

The library of the entomological division of the department of Agriculture contains about 300 volumes, mostly selected on account of their absence from the Congressional Library, and consisting of standard works. It contains the only complete colored copy of Mr. Glover's plates of American insects; and the general library of agricultural works includes many works embracing papers on applied entomology. Special mention may be made of a complete set of the Gardiner's Chronicle of London, in which are many articles by Westwood.

The private library of Mr. C. V. Riley, of Washington, contains about 700 volumes of purely entomological books and about 3,000 pamphlets, nearly all of which are directly entomological. It is especially rich in biological papers and such as illustrate the economic bearings of the science. Several of the late Mr. Walsh's books are found here with his marginal notes. Mr. Riley has paid particular attention to the fugitive literature of entomology, and has 22 scrap-books filled with nearly every thing that has appeared on insects during the last twelve years in agricultural and other papers, — articles mostly of an economic character, and generally overlooked in bibliographies.

This review clearly shows the great advantages to an entomologist of a residence in this vicinity, where the bibliographical aids to study equal, if they do not surpass, those of the rest of the country combined.

LIST OF SOME OF THE RARER WORKS FOUND IN THE DIFFERENT LIBRARIES OF THIS VICINITY.

B.A. = Boston Athenaeum.
H.C. = Harvard College Library.

M.Z. = Museum of Comparative Zoology.
N.H. = Boston Society of Natural History.

P.L. = Boston Public Library.
S.H.S. = S. H. Scudder's Library.

1. **Abbot and Smith.** History of the rarer lepidopterous insects of Georgia. London. 1797. 2 vol. fo. **H.C. N.H. P.L.**

Copies also exist in the Congressional library and the libraries of Buffalo and Baltimore.

2. **Albin.** Natural history of English insects. London. 1749. 4°. **N.H.**

There is also a copy in the Congressional library, and one of text only in **M.Z.**

3. **Billberg.** Enumeratio insectorum. Holmiae. 1820. 4°. **M.Z. S.H.S.**

A very rare work, found, according to Dr. Hagen, in no library of Europe outside of Sweden.

4. **Blankaart.** Schauplatz der raupen, wärmer, maden und fliegende thiergen. Leipzig. 1690. 8°. **M.Z.**

The Dutch original was published in 1688. A second part remains in MS. in the library at the Hague; Snellen has published a list of its contents, and a copy of this is appended to the work in Dr. Hagen's library.

5. **Boisduval, Rambur, et Graalin.** Chenilles d'Europe. Paris. 1832-43. 8°. **P.L. S.H.S.**

6. **Borelli.** De motu animalium. Romae. 1680-81. 2 vol. 4°. **M.Z.**

The 2d ed. Leyden, 1685, is in **H.C.**

7. **Charleton.** Onomastikon zoikon. Londini. 1761. 4°. **M.Z.**

8. **Clutius.** Opuscula duo singularia. Amsterodami. 1634. 4°. **M.Z.**

A very rare work.

9. **Coquebert.** Illustratio iconographica insectorum. Parisiis. 1799-1804. 4°. **M.Z. N.H. P.L.**

There is also a copy in the Peabody institute, Baltimore. The greater part of the edition was destroyed by fire, and the work has thereby become rare

10. **Cornalia.** Monografia del bombyce del gelso. Milano. 1856. 4°. **S.H.S.**

11. **Crell.** Disputatio de locustis, non sine prodigio in Germania nuper conspectis. Lipsiae. 1693. 4°. 28 pp. unpagged **S.H.S.**

12. **Curtis.** British entomology. London 1823-40. 16 v. 8°. **M.Z. P.L.**

There are also copies in the Peabody institute and the Astor library. That of the Museum is one of the early copies, now scarce, and the coloring of which is superior to that of later copies.

13. **Doubleday and Westwood.** Genera of diurnal lepidoptera. London. 1846-52. 2 v. fo. **B.A. N.H. P.L.**

Copies are also in the Congressional library and the Peabody institute. Mr. B. P. Mann has an imperfect copy. Dr. Harris's copy is in the possession of his son, Mr. Edward Doubleday Harris

14. **Ernst et Engramelle.** Papillons d'Europe. Paris. 1779-93. 8 v. 4°. **M.Z.**

There is also a copy in the library of the American academy of arts and sciences, Boston.

15. **Euper.** Die ausländischen schmetterlinge. Erlangen. 1785-91 (1801). 4°. **P.L.**

The Society at Buffalo also possesses a copy.

16. **Evans.** British libellulinae, or dragon flies. London. 1845. 8°. **M.Z.**

Privately printed.

17. **Fichtelberger.** Heu! schrecken! von heuschrecken. St. Annaberg. 1693. 4°. 32 pp., unpagged. **S.H.S.**

18. **De Geer.** Mémoires pour servir à l'histoire des insectes. Stockholm. 1752-58. 7 v. 4°. **B.A. P.L.**

Copies may also be found at the Astor library and Peabody institute.

19. **Gladbach.** Beschreibung neuer europäischen schmetterlingen. Frankfurt. 1777. 4°. **M.Z.**

According to Dr. Hagen, only three copies are known.

20. **Gray.** Notices of insects that are known to form the bases of fungoid parasites. London. 1858. 4°. **M.Z. S.H.S.**

Only a small edition was printed and privately distributed by the author, whose name appears only by the initials G. R. G.

21. **Hartmann.** Succini prussici physica et civilis historia. Francofurti. 1677. 8°. **M.Z. S.H.S.**

Very rare.

22. **Hebenstreit.** De locustis immenso agmine aerem nostrum implentibus. Jenae. 1603. 4°. **M.Z. S.H.S.**

Prange is not mentioned as author in either copy. Cf. Hagen's Bibl., I. 351.

23. **Hoefnagel.** Archetypa studiaeque patris. Francofurti. 1592. Oblong 4°. **M.Z.**

This copy is a very great rarity, printed on thin, pale pink paper, with a water-mark of Mercury's staff and snakes, differing from the ordinary copies. It is the only copy known to Dr. Hagen certainly colored at the time of original issue; a colored copy in Von Heyden's library was apparently painted at a later date. A third copy is quoted by Brunet, but has not been seen by Dr. Hagen (See Hagen's Bibl., I. 371). This is the first illustrated colored work on entomology ever printed. Dr. Hagen's copy is, however, defective in lacking eighteen of the fifty-two plates. The originals of Hoefnagel's plates, painted on parchment, still exist in the museum at Oxford, — formerly in the library of Disraeli, the father of Earl of Beaconsfield.

24. **Hoefnagel.** Diversae insectorum volatiliu icones. (Amsterdam.) 1630. Oblong 4°. **M.Z.**

This work, also from Dr. Hagen's library, is even much rarer than the plain copies of the preceding. From 1840 to 1867 only a single copy was quoted for sale; since then, according to Dr. Hagen, two have appeared on antiquarian catalogues, but one of them falsified by the introduction of some plates from the preceding work, the insects figured in the two being the same.

25. **Hübner.** Beiträge zur geschichte der schmetterlinge. Augsburg. 1786-89. 2 v. 8°. **P.L. S.H.S.**

26. **Hübner.** Sammlung europäischer schmetterlinge. Augsburg. 1805-24. 3 v. 4°. **P.L.**

27. **Hübner.** Geschichte europäischer schmetterlinge. Augsburg. 1806-18. 4°. **P.L.**

28. **Hübner.** Sammlung exotischer schmetterlinge. Augsburg. 1806-24. 3 v. 4°. **H.C. S.H.S.**

There is also a copy at Buffalo. My copy of this and the following works of Hübner came from the library of Brebisson, and appear to have been those of an original subscriber.

29. **Hübner.** Tentamen determinationis... lepidopterorum [Augsburg, 1806?] **S.H.S.**

The only copy known to exist, from which my reprint of 1871 was taken.

30. **Hübner.** Beiträge zur sammlung exotischer schmetterlinge. Augsburg. 1818-37. 4°. **H.C. S.H.S.**

There is also in my library a pamphlet without title (4 pp. 4°), giving names to a part of the insects in the first century of the Beiträge, often differing from those of the Beiträge, and evidently preceding it in date; perhaps it formed part of a prospectus of that work.

31. **Hübner.** Index exoticorum lepidopterorum. Augustae Vindelicorum. 1821. 4°. **S.H.S.**

32. **Hübner.** Systematisch-alphabetisch verzeichniss. Augsburg. 1822. 8°. **P.L. S.H.S.**

33. **Linné.** Dissertationes. A complete set of

the 186 dissertations afterwards published in the *Amoenitates academicae*. 8 v. 40. **M.Z.**

Dr. Hagen says the original copies are of great rarity, a complete set existing elsewhere, so far as he knows, only in Stockholm and Upsala. Dr. Hagen's copy was collected by Afzelius, a pupil of Linné's, and several of them bear Linné's autograph. A high price has been offered for this copy, which contains all the original plates, some of which—that, for instance, of the *Pandora insectorum*—being far rarer than the dissertations which contain them.

34. **Macleay**. *Horae entomologicae*. London. 1819-21. 2 v. 80. **S.H.S.**

Extremely rare, as nearly the whole edition was burned. It contains the fullest exposition of the author's "quinary system of nature."

35. **Majolus**. *Simonis Majoli Ostensis episcopi vultuariensis dierum canicularium*, tom. vii., etc. Francofurti. 1642. fo. **M.Z.**

Very rare; originally published in 1600, in 4°.

36. **Malpighi**. *Dissertatio epistolica de bombyce*. Londini. 40. **H.C. M.Z. P.L.**

37. **Melsheimer**. *Catalogue of the insects of Pennsylvania*. Hannover. 1806. 120. **M.Z.**

Extremely rare; also in Dr. Leconte's library.

38. **Metaxa** (Luigi) e **Rolli**. *Osservazioni naturali intorno alle cavallette nocive della campagna romana*. Roma. 1825. 40. **S.H.S.**

The principal author's name is wrongly given as Telemaco by Hagen, who had not seen the work.

39. **Moller**. *Meditatio de insectis quibusdam Hungaricis*. Francofurti. 1673. 120. **M.Z.**

Very rare.

40. **Moufet**. *Insectorum sive minimorum animalium theatrum*. Londini. 1634. Sm. fo. **H.C. M.Z. N.H.**

Also in the Congressional library.

41. **New England Farmer**. The volumes or numbers containing the papers of Dr. Harris are in **H.C. M.Z. N.H. S.H.S.**

42. **Newport**. Collections of his anatomical and physiological papers, nearly complete, will be found in my library, and in that of Dr. Packard, in Providence.

43. **Olearius**. *Gottorffische kunstkammer*. Schleswig. 1674. 40. **M.Z.**

44. **Olivier**. *Entomologie: coléoptères*. Paris. 1780-1808. 8 v. 40. **H.C. M.Z. N.H. P.L.**

There is also a copy at the Peabody institute.

45. **Palisot de Beauvois**. *Insectes recueillis en Afrique et en Amérique*. Paris. 1805-21. fo. **H.C.**

An imperfect copy. There is also a copy at Baltimore.

46. **Panzer**. *Fauna insectorum Germanicae initia*. Nürnberg. 1793-1844. 190 fasc., oblong 80. **M.Z.**

Complete, with all the additions and catalogues. It is probably the only copy in the country.

47. **Peters**. *Naturwissenschaftliche reise nach Mozambique. Insecten und myriopoden*. Berlin. 1862. 40. **M.Z.**

Presumed to be the only copy in the country.

48. **Poey**. *Centurie de lépidoptères de l'île de Cuba*. Paris. 1833. 80. **S.H.S.**

Very scarce.

49. **Quinones**. *Tratado de las langostas*. Madrid. 1820. 40. **B.A. M.Z. S.H.S.**

Very rare.

50. **Ray**. *Historia insectorum*. Londini. 1710. 40. **M.Z.**

Dr. Hagen considers this the only copy in the country.

51. **Rambur**. *Faune entomologique de l'Andalusie*. Paris. 1842. 2 v. 80. **S.H.S.**

I possess only the second and rarer volume, containing all excepting the coleoptera. Most of the copies placed on sale were withdrawn by the author, and only a few found in his possession at his death. According to Staudinger, vol. ii. pp. 305-36 (in my copy) were never published by Rambur.

52. **Rambur**. *Catalogue systématique des lépidoptères de l'Andalusie*. Paris. 1858-66. 2 livr., forming partie I. **S.H.S.**

The second *livraison* does not appear to have been issued before 1870, and contains four plates of a third part, never published.

53. **Roberg**. *De libella insecto lacustri et alato*. Upsaliae. 1732. 40. **M.Z.**

Very rare.

54. **Roesel**. *Monatliche insecten-belustigung*. Nürnberg. 1746-61. 4 v. 40. **M.Z. H.C. P.L.**

I have also an imperfect copy, and copies are in Brown university, the Peabody institute, and Mr. C. V. Riley's library. The Dutch translation is also in the Public library of Boston. Dr. Hagen's copy is one in which the earlier parts were colored by Roesel himself before he was ennobled. These are now rather scarce.

55. **Rondelet**. *Libri de piscibus marinis*. Lugduni. 1554-55. 2 v. fo. **M.Z.**

Rare, especially the second volume.

56. **Savigny**. *Description de l'Égypte* (50 plates of insects). Paris. 1809-13. Elephant fo. **H.C. S.H.S.**

Also in Dr. Packard's library and that of the Peabody Institute; doubtless in others.

57. **Say**. *American entomology*. Philadelphia. 1817. 80. **M.Z.**

This preliminary part, issued many years before the first volume bearing the same title, is exceedingly rare,—"never properly published," says Say himself. Only one other copy is known in this country,—in the library of Dr. Le Conte.

58. **Say**. *Descriptions of new species of North American insects, and observations on some of the species already described*. New Harmony. 1829-33 [1830-34]. 80. **N.H. S.H.S.**

One of the rarest of Say's New Harmony pamphlets, since twice republished: typographically, one of the most irregular pamphlets ever issued.

59. **Schiffermüller**. *Systematisch verzeichniss der schmetterlinge der wiener gegend*. Wien. 1776. 40. **M.Z. S.H.S.**

Probably the only copies of the author's edition in the country. I have also the edition of 1775, which is given as a separate work by Hagen, but which differs from the later only in the date on the two title-pages, a different frontispiece, and a preliminary title-page: *Ankündigung eines systematischen werkes von den schmetterlingen der wiener gegend*. 1775. (Cf. Hagen, *Bibl.* 11. 122.)

60. **Sepp**. *Surinaamische vlinders*. Amsterdam. 1848-55. 3 v. 40. **N.H.**

61. **Stroem**. *Physik och oekonomisk beskrivelse over fogderiet Söndmör*. Sorae. 1762. 40. **M.Z.**

62. **Thunberg**. *Dissertationes*. Upsaliae. 1781-1828.

A very nearly complete set of his entomological papers, some of them very scarce, will be found in **M.Z. S.H.S.**

63. **Uddman**. *Novae insectorum species*. Aboae. 1753. 40. **M.Z.**

Very rare.

64. **Villiers et Guenée**. *Tableaux synoptiques des lépidoptères d'Europe*. Paris. 1835. 40. **S.H.S.**

Rarely obtainable; and not elsewhere in this country, unless in Philadelphia.

65. **Walker**. *Diptera britannica*. London. 1851-56. 3 v. 80. **S.H.S.**

Scarce. Also in Mr. E. Burgess's library.

66. **Wigand**. *Vera historia de succino borassico*. Jenae. 1590. 80. **M.Z.**

According to an inscription made in this copy a century ago, this was even then "liber perrarus."

67. **Wotton**. *De differentiis animalium libri decem. Lutetiae Parisiorum*. 1552. fo. **M.Z.**

Rare, and the only copy known to exist in the country.

68. **Zanghi** (Paolo). *Delle cavallette e del modo di distruggerle, opera in circostanza della invasione avvenuta nella provincia di Caltanissetta nel 1832*. Palermo. 1835. 160. pp. (6), 171. **S.H.S.**

Not mentioned in Hagen's *Bibliogr*.

69. **Zinnani**. *Delle uova e dei nidi degli uccelli libro primo; osservazioni giornali sopra la cavallette*. Venezia. 1737. 40. **M.Z. S.H.S.**

Very rare.

Library of Harvard University.

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 12.



LIST

OF THE

PUBLICATIONS OF HARVARD UNIVERSITY AND
ITS OFFICERS, 1870-1880.

CAMBRIDGE, MASS.:

UNIVERSITY PRESS: JOHN WILSON AND SON.

1881.

BIBLIOGRAPHICAL CONTRIBUTIONS

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
12. LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
- *13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.

*** The present list has been prepared from the responses to the following circular : —

CAMBRIDGE, GORE HALL, Jan. 24, 1881.

DEAR SIR, —

It is proposed to print a list of the publications of the officers of instruction and government in the University (including librarians, curators, demonstrators, and assistants, together with instructors annually appointed), for the Academic years 1870-71 to 1879-80, both inclusive; that is, from Sept. 29, 1870, to Sept. 30, 1880.

I am directed by the President to request your co-operation in making this list accurate and complete by furnishing me with the titles of the publications made by you during the term of your service, so far as it falls within the period named, and the titles of such other of your publications, if any, as may be said to have grown out of your work in the University, though published after your connection with it ceased.

The classes of works intended are these : —

1. Independent works as author or editor.
2. Joint works as author or editor.
3. Contributions, bearing the author's name, to serial, periodical, or occasional publications, including transactions of learned societies.
4. Lectures delivered within or without the University, which have been subsequently printed.

As it is intended to give a separate list of the contents of the Annals of the Observatory, the Memoirs and Bulletin of the Museum of Comparative Zoölogy, the Reports of the Peabody Museum, the Library Bulletin, and the Bulletin of the Bussey Institution, contributions to these publications of the University need not be enumerated.

Very truly yours,

JUSTIN WINSOR, *Librarian of the University.*

OFFICIAL PUBLICATIONS.

*. * THESE titles are those of publications issued by the different departments of the University, during the period 1870-1880, with the addition of such volumes of the publications of the Astronomical Observatory and Museum of Comparative Zoölogy as were printed before 1870. This departure from the strict limits of the period has been made because the volumes dated before 1870 are few in number, and there is manifest convenience in making such a list complete. Contributions by officers of the University in these official publications are not included in the lists given on later pages under their respective names.

ARNOLD ARBORETUM.

Report of the Director of the Arnold Arboretum to the President and Fellows of Harvard University. By C. S. Sargent. 8°. Salem. 1874. pp. 16.

Dated Dec. 1874. Also printed in the Bulletin of the Bussey Institution.

Annual Report of the Director of the Arnold Arboretum to the President and Fellows of Harvard College for 1879-80. By C. S. Sargent. 8°. Cambridge. 1881. pp. 2, 7, map.

The body of this report (pp. 1-3) is appended to the annual reports of the President and Treasurer of Harvard College.

*. * These are the only reports which have been separately printed; but since 1875 they have appeared in the annual reports of the President, etc., sometimes in connection with the report on the Botanic Garden; and that for 1875, with the addition of appendices, in the Bulletin of the Bussey Institution.

ASTRONOMICAL OBSERVATORY.

Annals of the Astronomical Observatory of Harvard College. Vol. 1-12. 1852-1880. 4°. Cambridge and Leipzig. 1855-80.

Contents.—i. Part 1., 1856. pp. (6), 191. — (1.) History and description of the Observatory. pp. 1-55, figs. — (2.) Appendix, containing reports of the committee appointed by the overseers of the University at Cambridge to examine the Observatory, for the academic years 1845-55, including reports of the Director, W. C. Bond: 1845-46, pp. 67-112, fig.; 1846-47, pp. 113-122; 1847-48, pp. 122-132; 1848-49, pp. 132-140; 1849-50, pp. 140-150; 1850-51, pp. 151-160; 1851-52, pp. 160-167; 1852-53, pp. 168-174; 1853-54, pp. 174-182; 1854-55, pp. 183-191. — Part 2, 1855. t.p., pp. 97, 317, fig. Results of Astronomical observations made under the direction of W. C. Bond; G. P. Bond, C. W. Tuttle, assistants. Zone catalogue of 5,500 stars situated between the equator and $0^{\circ}20'$ north declination, observed during the years 1852-53.

ii. Part 1, 1857. pp. 6, 136, pl. (31). Observations on the planet Saturn, made with the twenty-three-foot equatorial at the Observatory of Harvard College, 1847-57. By W. C. Bond. — Part 2, 1867. pp. 6, 257. Results of astronomical observations made under the direction of W. C. Bond; G. P. Bond, assistant. Zone catalogue of 4,484 stars situated between $0^{\circ}20'$ and $0^{\circ}40'$ north declination, observed during the years 1854-55.

iii. 1862. pp. 20, 372, pl. 49, figs. Account of the great comet of 1858. By G. P. Bond.

iv. Part 1, 1863. pp. (6), 32. A catalogue of standard polar and clock stars, for the reduction of observations in right ascension. By T. H. Safford. — Part 2, 1878. pp. 19, 143. Right ascensions of 505 stars determined with the east transit circle, 1862-65. By T. H. Safford.

v. 1867. pp. 26, 189, pl. (3). Observations upon the great nebula of Orion. By G. P. Bond; edited by T. H. Safford.

vi. 1872. pp. (6) 303. Results of astronomical observations made under the direction of W. C. Bond; G. P. Bond, assistant. Zone catalogue of 6,100 stars situated between $0^{\circ}40'$ and $1^{\circ}0'$ north declination, observed during the years 1859-60.

vii. 1871. pp. 22, portr., pl. 112. Observations of solar spots, 1847-49. By W. C. Bond.

viii. Results of observations made or directed by W. C. Bond, G. P. Bond, and J. Winlock. Part 1, 1876. pp. 8, 65, pl. 10, 6. Historical account of the Astronomical Observatory of Harvard College from October, 1855, to October, 1876 (including a paper on the Structure of the surface of the moon, by N. S. Shaler. pp. 50-53.) — Part 2, 1876. t.p., pp. 8, 7, pl. 35. — (1) Astronomical engravings of the moon, planets, etc., prepared under the direction of J. Winlock. pp. 8, pl. 23. — (2) Astronomical engravings illustrating solar phenomena, prepared under the direction of J. Winlock. pp. 7, pl. 12.

ix. Leipzig. 1878. pp. 6, 181, pl. (3). Observations made under the direction of J. Winlock. Photometric researches, made in the years 1872-75. By C. S. Peirce.

x. 1877. pp. 89, 239, pl. 6. — 1. Observations made with the meridian circle during the years 1871 and 1872, under the direction of J. Winlock. By W. A. Rogers. pp. 9-89, 1-227. — 2. Catalogue III. Catalogue of stars in right ascension observed during the years 1867 and 1868, with the transit circle. [By E. P. Austin]. pp. 229-239.

xi. 1879. pp. 8, 318. Photometric observations made principally with the equatorial telescope of fifteen inches aperture during the years 1877-79. By E. C. Pickering, aided by A. Searle and W. Upton.

xii. 1880. pp. 92, 271. Observations made with the meridian circle during the years 1874 and 1875, and prepared for publication under the direction of J. Winlock and E. C. Pickering. By W. A. Rogers.

Report of the Committee of the Overseers of Harvard College appointed to visit the Observatory in the years 1859-64, together with the Report of the Director. 6 nos. 8°. Boston. 1860-65.

1859, 24 pp.; 1860, 23 pp.; 1861, 36 pp.; 1862, 37 pp.; 1863, 27 pp., — all by G. P. Bond; 1864, 28 pp., — by T. H. Safford. Earlier reports were published in the first volume of the *Annals*.

Annual Report of the Director of Harvard College Observatory, presented to the Visiting Committee, 1877-80. By E. C. Pickering. 4 nos. 8°. Cambridge. 1877-81.

1877, 36 pp.; 1878, 14 pp.; 1879, 14 pp.; 1880, 17 pp.

Standard Public Time [by L. Waldo]. 12 pp. 8°. Cambridge, 1877.

BUSSEY INSTITUTION.

Bulletin of the Bussey Institution, Jamaica Plain, Boston. Vols. 1-2. 8°. Cambridge. 1874-78.

Contents. i. pp. 4, 470, pl. 6. Part 1, 1874, pp. 1-80; part 2, 1874, pp. 81-184; part 3, 1874, pp. 185-284; part 4, 1875, pp. 285-372; part 5, 1876, pp. 373-470, pl. 1-6. — History and description of the Bussey Institution, 1-7. — 1. Report of results of examination of commercial fertilizers. By F. H. Storer. pp. 8-24. — 2. Record of results obtained on analyzing American shorts and middlings, with remarks on the composition of bran. By F. H. Storer. pp. 25-39. — 3. The humane destruction of animals. By D. D. Slade. pp. 40-49, figs. — 4. Agricultural value of the ashes of anthracite. By F. H. Storer. pp. 50-79. — 5. Record of trials of fertilizers upon the plain-field of the Bussey Institution; first report, results obtained in 1871. By F. H. Storer. pp. 80-102. — 6. *The same*; second report, results obtained in 1872. By F. H. Storer. pp. 103-115. — 7. *The same*; third report, results obtained in 1873, with a review of the three years' course of experiments. By F. H. Storer. pp. 116-170. — 8. Analyses of several foreign superphosphates of lime, with remarks on the cost of importing superphosphates from Europe. By F. H. Storer. pp. 170-184. — 9. On the valuation of soluble phosphoric acid in superphosphate of lime. By F. H. Storer. pp. 185-190. — 10. Average amounts of potash and phosphoric acid in wood ashes from house-fires. By F. H. Storer. pp. 191-251. — 11. On the importance as plant-food of the nitrogen in vegetable mould. By F. H. Storer. pp. 252-285. — 12. Applied zoölogy; the importance of its study to the practical agriculturist. By D. D. Slade. pp. 286-292. — 13. Report of the Director of the Arnold Arboretum, presented to the President and Fellows of Harvard University. By C. S. Sargent. pp. 293-299. — 14. Record of trials of fertilizers upon the plain-field of the Bussey Institution; fourth report, results obtained in 1874. By F. H. Storer. pp. 300-318. — 15. The potato-rot. By W. G. Farlow. pp. 319-338, figs. — 16. Report on analyses of salt-marsh hay and bog hay. By F. H. Storer. pp. 339-361. — 17. On the fodder-value of apples. By F. H. Storer. pp. 362-372. — 18. Composition of date-stones and of the stones of peaches and prunes. By F. H. Storer. pp. 373-377. — 19. Analyses of potassic fertilizers. By F. H. Storer. pp. 378-397. — 20. On the occurrence of ammonia in anthracite. By F. H. Storer. pp. 398-403. — 21. Disease of olive and orange trees, occurring in California in 1875. By W. G. Farlow. pp. 404-414. — 22. American grape-vine mildew. By W. G. Farlow. pp. 415-429. — 23. List of fungi found in the vicinity of Boston. By W. G. Farlow. pp. 430-439. — 24. The black knot. By W. G. Farlow. pp. 440-454, pl. 1-6. — 25. Report of the Director of the Arnold Arboretum, presented to the President and Fellows of Harvard University. By C. S. Sargent. pp. 455-458.

ii. pp. 252, pl. 1. Part 1, 1877, pp. 1-80; part 2, 1877, pp. 81-160, pl.; part 3, 1878, pp. 161-252. — 1. The art of the farrier. By D. D. Slade. pp. 1-6. — 2. On the amounts of potash and of phosphoric acid in several kinds of rocks. By F. H. Storer. pp. 7-25. — 3. On the agricultural value of spent dye-woods and tan. By F. H. Storer. pp. 26-50. — 4. On the composition of buckwheat straw. By F. H. Storer. pp. 51-57. — 5. On the fertilizing power of roasted leather. By F. H. Storer. pp. 58-71. — 6. Notes of experiments in which buckwheat plants were watered with solutions of peat in alkalies. By F. H. Storer. pp. 72-74. — 7. Remarks on some algae found in the water supplies of the city of Boston. By W. G. Farlow. pp. 75-80. — 8. On the composition of certain pumpkins and squashes. By F. H. Storer. pp. 81-93. — 9. A record of results obtained on analyzing the seeds of broom-corn. By F. H. Storer. pp. 94-105. — 10. Notes on some common diseases caused by fungi. By W. G. Farlow. pp. 106-114, pl. — 11. A record of analyses of several weeds that are occasionally used as human food. By F. H. Storer. pp. 115-129. — 12. On the chemical composition of blue joint-grass (*calamagrostis canadensis*), as contrasted with that of reed canary grass (*phalaris arundinacea*). By F. H. Storer. pp. 130-136. — 13. Remarks on American fodder rations, with hints for

the improvement of some of them. By F. H. Storer. pp. 137-158. — 14. Results obtained on growing buckwheat in equal weights of pit-sand and of coal ashes. By F. H. Storer. pp. 159-160. — 15. The hybridization of lilies. By F. Parkman. pp. 161-165. — 16. On the chemical composition of the common field horse-tail or scouring-rush (*equisetum arvense*). By F. H. Storer. pp. 166-175. — 17. Results of a chemical examination of the shells of crabs and lobsters, and of those of oysters, clams, mussels, and other shell-fish. By F. H. Storer. pp. 176-194. — 18. On the prominence of carbonate of lime as a constituent of solutions obtained by percolating dry cultivable soils with water. By F. H. Storer. pp. 195-221. — 19. Supplementary note to an article on the composition of pumpkins. By F. H. Storer. pp. 221-223. — 20. List of fungi found in the vicinity of Boston; part 2. By W. G. Farlow. pp. 224-252.

LIBRARY OF THE UNIVERSITY.

Bulletin of more important accessions, with Bibliographical Contributions : —

Vol. i. includes Nos. 1 to 13, 1875-79, pp. iv. 378. 8°. Nos. 1 to 5 consist of lists of accessions to the college library only. Those added to the departmental libraries are included in later numbers, which also contain bibliographical papers, of which the most extended are as follows : —

H. C. Lodge on "American History," in Nos. 6 and 7.

Justin Winsor on "Puritans and Separatists," in no. 7; on the "Pilgrims at Plymouth" and "Thomas à Becket" in no. 8; on "The Great Council for New England and Massachusetts Bay," in nos. 9 and 10; on "Early Globes" in no. 10; on "The Cosmographical labors of Sebastian Münster" and "The Antinomian Controversy in New England" in no. 11; on "Edmund Spenser and Early Editions of his Poems," in no. 12.

Charles F. Dunbar on "Gold and Silver," in no. 7.

Ezra Abbot on "Theological Books," in no. 7.

Ephraim Emerton on "The History of the Empire and the Papacy, 1056-1122," in no. 7.

Wolcott Gibbs on "Thermodynamics," in no. 9.

Vol. ii. begins with no. 14, 1880, and with no. 18 the publication became "The Harvard University Bulletin." The first four numbers contain, beside the lists of accessories, etc., the following bibliographical papers : —

Justin Winsor on "The Character of the Gracchi," in no. 14; on the "Character of Seneca," in no. 15.

Ivan Panin on "Russian Nihilism," in nos. 16 and 18.

Wolcott Gibbs and John Trowbridge on "Suggestions of Students' Work in Physics," in no. 17.

*. The Bulletin has also contained various papers, which, issued separately, constitute the series next named.

Bibliographical Contributions, edited by Justin Winsor, Librarian.

*. These papers, after appearing in sections in the Bulletin of the Library, have been printed separately; but those marked with a star, not being yet completed in the Bulletin, have not appeared separately. They are : —

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems : a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal Books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several Pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
10. JUSTIN WINSOR. Halliwelliana : a Bibliography of the Publications of James Orchard Halliwell-Phillips.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers. 1870-1880. (Separate only.)
- *13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.

Special Publications. I. Catalogue of Scientific Serials of all Countries, including the transactions of learned societies in the natural, physical and mathematical sciences, 1633-1876. By Samuel H. Scudder. 1879. 8°. pp. xii. 358.

*. The annual reports of Mr. Sibley as Librarian are preserved in manuscript, but his twenty-second and final Annual Report (July 6, 1877) was printed. The present Librarian has made three annual reports, which have been appended to the Reports of the President, and have also been issued separately.

MUSEUM OF COMPARATIVE ZOOLOGY.

Memoirs of the Museum of Comparative Zoölogy at Harvard College. Vols. 1-7. 4°. Cambridge. 1865-80.

First published under the title of "Illustrated Catalogue," each paper separately paged. Nos. 1, 2 of the Catalogue form vol. 1 of Memoirs; Nos. 3, 4, 5, 6 of Catalogue and No. 9 of Memoirs form vol. 2; No. 7 of Catalogue forms vol. 3; and No. 8 of Catalogue and No. 10 of Memoirs form vol. 4. After this, the continuous numbering of separate papers is discontinued.

Contents.—i. 1865. pp. 460, pl. 2, cuts in text.—1. Ophiuridæ and astrophytidæ. By T. Lyman. pp. 8, 200, pl. 2, cuts.—2. North American aculephæ. By A. Agassiz. pp. 14, 234, cuts.

ii. 1870-76. pp. 280, pl. 26. 1. 1870. Monograph of the North American Astacidæ. By H. A. Hagen. pp. 8, 111, pl. 11.—2. 1871. Deep-sea corals. By L. F. de Pourtalès. pp. (4), 93, map, pl. 8.—3. 1872. The immature state of the odonata; part 1, subfamily gomphina. By L. Cabot. pp. (4), 19, pl. 3.—4. 1871. Supplement to the Ophiuridæ and astrophytidæ. By T. Lyman. pp. 18, pl. 2.—5. 1876. On some insect deformities. By H. A. Hagen. pp. 23, pl. 1.

iii. 1872-74. pp. 796, pl. 94. Revision of the echini. By A. Agassiz.—1. 1872. *Introduction*, bibliography, nomenclature, chronological list, synonymy, geographical distribution. pp. 12, 244, pl. 7.—2. 1872. *Echini* of the eastern coast of the United States, together with a report on the deep-sea echini collected in the straits of Florida, by L. F. de Pourtalès, in the years 1867-69. pp. 245-378, pl. 42.—3. 1873. Description of the species of recent echini. pp. (2), 379-628, (2), pl. 28.—4. 1874. Structure and embryology of the echini. pp. (2), 629-762, pl. 17, cuts.

. The text and plates were issued separately; the latter with title-pages and index making pp. (6), 4, and one or more pages of text corresponding to each plate.

iv. 1874-76. pp. 348, pl. 28.—1. 1874. Zoölogical results of the Hassler expedition. I. Echini, crinoids, and corals. By A. Agassiz and L. F. de Pourtalès. pp. 4, 54, pl. 10.—2. 1875. *The same*. II. Ophiuridæ and astrophytidæ, including those dredged by the late Dr. W. Stimpson. By T. Lyman. pp. 34, pl. 5, cuts.—3. 1876. The American bisons, living and extinct. By J. A. Allen. T. p., pp. 10, 246, map, pl. 12.

v. 1877. pp. 215, pl. 54.—1. North American starfishes. By A. Agassiz. pp. 6, 137, pl. 20.—2. Report on the hydroids collected during the exploration of the Gulf Stream by L. F. de Pourtalès. By G. J. Allman. pp. 2, 66, pl. 34.

vi. 1878-80. pp. 637, pl. 33, maps 4.—1. 1879-80. The auriferous gravels of the Sierra Nevada of California. By J. D. Whitney. pp. 5-569, pl. 23, maps 4.—2. 1878. Report on the fossil plants of the auriferous gravel deposits of the Sierra Nevada. By L. Lesquereux. pp. 6, 62, pl. 10.

vii. 1880. pp. 4, 61, pl. 23 (incomplete).—1. Report on the Florida reefs. By L. Agassiz, accompanied by illustrations of Florida corals, from drawings by Sonrel, Burkhardt, Agassiz, and Roetter, with an explanation of the plates by L. F. de Pourtalès.

. Two other parts, one already published, complete the volume.

Illustrated Catalogue. See Memoirs.

Bulletin of the Museum of Comparative Zoölogy at Harvard College, in Cambridge. Vols. 1-7. 8°. Cambridge. 1863-80.

Contents.—i. 1863-1869. pp. 4, 386. 1. List of the fishes sent by the Museum to different institutions, in exchange for other specimens, with annotations. By F. W. Putnam. pp. 1-16.—2. List of the echinoderms sent by the Museum to different institutions, in exchange for other specimens, with annotations. By A. Agassiz. pp. 17-28.—3. List of the polyps and corals sent by the Museum to different institutions, in exchange for other specimens, with annotations. By A. E. Verrill. pp. 29-60.—4. List of the brachiopods from the island of Anticosti, sent by the Museum to different institutions, in exchange for other specimens, with annotations. By N. S. Shaler. pp. 61-70.—5. The fossil cephalopods of the Museum of Comparative Zoölogy. By A. Hyatt. pp. 71-102.—6. Contributions to the fauna of the Gulf Stream at great depths. By L. F. de Pourtalès. pp. 103-120.—7. Contributions to the fauna of the Gulf Stream at great depths; second series. By L. F. de Pourtalès. pp. 121-142.—8. Catalogue of the mammals of Massachusetts, with a critical revision of the species. By J. A. Allen. pp. 143-252.—9. Preliminary report on the echini and starfishes, dredged in deep water between Cuba and the Florida reef, by L. F. de Pourtalès. Prepared by A. Agassiz. pp. 253-308.—10. Preliminary report on the ophiuridæ and astrophytidæ dredged in deep water between Cuba and the Florida reef, by L. F. de Pourtalès. Prepared by T. Lyman. pp. 309-354.—11. List of the crinoids, obtained on the coasts of Florida and Cuba by the U. S. coast-survey Gulf-stream expeditions in 1867, 1868, 1869. By L. F. Pourtalès. pp. 355-358.—12. List of holothuridæ from the deep-sea dredgings of the U. S. coast survey. By L. F. Pourtalès. pp. 359-361.—13. Report upon the deep-sea dredgings in the Gulf Stream during the third cruise of the U. S. steamer "Bibb," addressed to Professor Benjamin Peirce, superintendent U. S. coast survey. By L. Agassiz. pp. 363-386.

ii. 1870-71. pp. 4, 457; pl. 8.—1. On the eared seals (otariidæ), with detailed descriptions of the North Pacific species. By J. A. Allen. Together with an account of the habits of the northern fur seal (*Callorhinus ursinus*). By C. Bryant. pp. 1-108; pl. 1-3.—2. Preliminary report on the crustacea, dredged in the Gulf Stream in the Straits of Florida, by L. F. de Pourtalès; part I. Brachyura. Prepared by W. Stimpson. pp. 109-160.—3. On the mammals and winter birds of East Florida, with an examination of certain assumed specific characters in birds, and a sketch of the bird fauna of eastern North America. By J. A. Allen. pp. 161-450; pl. 4-8.—4. Directions for dredging. Drawn up by L. F. de Pourtalès. pp. 451-454.—5. Appendix to the Preliminary report (Bulletin, no. 9, vol. 1) on the echini collected by L. F. de Pourtalès. By A. Agassiz. pp. 455-457.

iii. 1871-76. pp. 4, 375; pl. 18.—1. Report on the brachiopoda, obtained by the U. S. coast-survey expedition in charge of L. F. de Pourtalès, with a revision of the craniidæ and discinidæ. By W. H. Dall. pp. 1-45; pl. 1-2.—2. Application of photography to illustrations of natural history, with two figures printed by the Albert and Woodbury process. By A. Agassiz. pp. 47-48; pl. (2).—3. A letter concerning deep-sea dredging, addressed to Professor Benjamin Peirce, superintendent U. S. coast survey. By L. Agassiz. pp. 49-53.—4. Preliminary notice of a few species of echini. By A. Agassiz. pp. 55-58.—5. Fossil cephalopods of the Museum of Comparative Zoölogy; embryology. By A. Hyatt. pp. 59-111; pl. 1-4, cuts in text.—6. Notes of an ornithological reconnaissance of portions of Kansas, Col-

orado, Wyoming, and Utah. By J. A. Allen. pp. 113-183. — 7. Interim report on the hydroids collected by L. F. de Pourtales, during the Gulf Stream exploration of the U. S. coast survey. By G. J. Allman. pp. 185-186. — 8. The echini collected on the Hassler expedition. By A. Agassiz. pp. 187-190. — 9. Catalogue of the terrestrial air-breathing mollusks of North America, with notes on their geographical range. By W. G. Binney. pp. 191-220, map. — 10. Ophiuridae and astrophytidæ, old and new. By T. Lyman. pp. 221-272, pl. 1-7, cuts in text. — 11. Exploration of Lake Titicaca, by A. Agassiz and S. W. Garman. I. Fishes and reptiles. By S. W. Garman. pp. 273-278, 1 pl. — 12. Exploration of Lake Titicaca, by A. Agassiz and S. W. Garman. II. Notice of the palæozoic fossils. By O. A. Derby, with notes by A. Agassiz. pp. 279-286. — 13. Recent corals from Tilibiche, Peru. By A. Agassiz and L. F. de Pourtales. pp. 287-290, pl. 1. — 14. The development of salpa. By W. K. Brooks. pp. 291-348, cuts in text. 15. Exploration of Lake Titicaca, by A. Agassiz and S. W. Garman. III. List of mammals and birds. By J. A. Allen, with field notes by S. W. Garman. pp. 349-359. — 16. Exploration of Lake Titicaca, by A. Agassiz and S. W. Garman. IV. Crustacea. By W. Faxon. pp. 361-375, cuts in text.

iv. 1878. pp. 6, 449, pl. 104, cuts in text. The terrestrial air-breathing mollusks of the United States and the adjacent territories of North America. Described and illustrated by W. G. Binney.

v. 1878-79. pp. 4, 368, pl. 50. — 1. (Letter No. 1) to C. P. Patterson, superintendent coast survey, Washington, D.C., on the dredging operations of the U. S. coast-survey steamer "Blake," during parts of January and February, 1878. By A. Agassiz. pp. 1-9. — 2. On the presence of demodex folliculorum in the skin of the ox. By W. Faxon. pp. 11-16, pl. 1. — 3. The Richmond boulder trains. By E. R. Benton. pp. 17-42, maps 2. — 4. Description of a new species of corbicula, with notes on other species of the corbiculadæ family. By T. Prime. pp. 43-46, pl. 2, cuts in text. — 5. Notes on the anatomy of corbiculadæ (mollusca) and a translation from the Danish of an article on the anatomy of cyclas (sphaerium), by Jacobsen. By T. Prime. pp. 47-54, pl. 3. — 6. (Letter No. 2) to C. P. Patterson, superintendent coast survey, Washington, D.C., on the dredging operations of the U.S. coast-survey steamer "Blake," during parts of March and April, 1878, with the preliminary report on the mollusca of the expedition, by W. H. Dall. pp. 55-64, pl. 2. — 7. Ophiuridae and astrophytidæ of the exploring voyage of H. M. S. "Challenger," under Professor Sir W. Thomson. By T. Lyman. Part I. pp. 65-168, pl. 10. — 8. Reports on the results of dredging, under the supervision of A. Agassiz, in the Gulf of Mexico, by the U. S. coast-survey steamer "Blake," Lt. Com. C. D. Sigsbee commanding. I. Description of the sounding-machine, water-bottle, and detacher used on board the "Blake" by C. D. Sigsbee. pp. 169-179, pl. 5. — 9. *The same*. II. Report on the echini, by A. Agassiz; crinoids and corals, by L. F. de Pourtales; and ophiurans by T. Lyman: preceded by a bibliographical notice of the publications relating to the deep-sea investigations carried on by the U. S. coast survey. pp. 181-238, pl. 10, cuts in text. — 10. Report on the hydroidea collected during the exploration of the Gulf Stream and Gulf of Mexico by A. Agassiz. By S. F. Clarke. pp. 239-252, pl. 1-5. — 11. On some young stages in the development of hippa, porcellana, and pinnixa. By W. Faxon. pp. 253-268, pl. 1-5. — 12. Reports on the results of dredging, under the supervision of A. Agassiz, in the Gulf of Mexico, by the U. S. coast-survey steamer "Blake," Lt. Com. C. D. Sigsbee commanding. IV. Preliminary report on the worms. By E. Ehlers. pp. 269-274. — 13. On the classification of rocks. By M. E. Wadsworth. pp. 275-287. — 14. (Letter No. 3) to C. P. Patterson, superintendent U. S. coast survey, Washington, D. C., on the dredging operations carried on from December, 1878, to March 10, 1879, by the U. S. coast-survey steamer "Blake," Com. J. R. Bartlett. By A. Agassiz. pp. 289-302, maps 2. — 15. On the development of palæmonetes vulgaris. By W. Faxon. pp. 303-330, pl. 1-4. — 16. On the jaw and lingual dentition of certain terrestrial mollusks. By W. G. Binney, pp. 331-368, pl. 2.

vi. 1879-1880. pp. 158, pl. 16 (incomplete). — 1. List of dredging stations occupied by the U. S. coast-survey steamers "Corwin," "Bibb," "Hassler," and "Blake," from 1867-1879, Benjamin Peirce and Carlile P. Patterson, superintendents of the coast survey. pp. 1-15. — 2. Ophiuridae and astrophytidæ of the exploring voyage of H. M. S. "Challenger," under Professor Sir W. Thomson. Part II. By T. Lyman. pp. 17-83, pl. 9. — 3. Reports on the results of dredging under the supervision of A. Agassiz, in the gulf of Mexico, 1877-78, by the U. S. coast-survey steamer "Blake," Lt. Com. C. D. Sigsbee commanding. V. General conclusions from a preliminary examination of the mollusca. By W. H. Dall. pp. 85-93. — 4. Reports on the results of dredging under the supervision of A. Agassiz, in the Caribbean Sea, 1878-79, by the U. S. coast-survey steamer "Blake," Com. J. R. Bartlett commanding. VI. Report on the corals and antipatharia. By L. F. de Pourtales. pp. 95-120, pl. 1-3. — 5. The ethmoid bone in the bats. By H. Allen, pp. 121-122. — 6. On certain species of chelonioidea. By S. W. Garman. pp. 123-126. — 7. Contribution to a knowledge of the tubular jelly fishes. By J. W. Fewkes. pp. 127-146, pl. 1-3. — 8. (Letter No. 4) to C. P. Patterson, superintendent U. S. coast and geodetic survey, Washington, D. C., on the dredging operations carried on during part of June and July, 1880, by the U. S. coast-survey steamer "Blake," Com. J. R. Bartlett. By A. Agassiz. pp. 147-154. — 9. Reports of the results of dredging, under the supervision of A. Agassiz, on the east coast of the United States, by the U. S. coast-survey steamer "Blake"; Com. J. R. Bartlett. VII. Description of a gravitating trap for obtaining specimens of animal life from intermedial ocean depths. By C. D. Sigsbee. pp. 155-158, pl. 1.

The volume, when completed, will contain three more numbers, two of which have already been published.

vii. 1880. pp. 4, 157; pl. 6 (incomplete). 1. Notes on the geology of the iron and copper districts of Lake Superior. By M. E. Wadsworth.

The volume will contain only geological papers, and bears also the title "Geological Series, i."

Report of the Committee of the Overseers of Harvard College, appointed to visit the Lawrence scientific school during the year 1860; together with the reports submitted by the professors. Submitted Feb. 21, 1861. 8°. Cambridge. 1873. pp. 86.

Contents.—(i.) Report of the Board of Overseers of Harvard College. pp. 3-11.—(ii.) Report of the Trustees of the Museum of Comparative Zoölogy. 1861. Sep. t.p., pp. 16-67. [App. C. Report of the Director of the Museum for the year 1859, presented January, 1860. By L. Agassiz. pp. 48-53. App. D. Report of the Committee on the Museum, presented October, 1860. pp. 54-58. App. E. Report of the Director of the Museum for the year 1860, submitted January, 1861. By L. Agassiz. pp. 59-66.]—(iii.) Annual report of the Trustees of the Museum, together with the report of the Director. 1862. Sep. t. p., pp. 71-86. [App. A. Third Annual Report of the Museum, presented October, 1861. By L. Agassiz. pp. 73-85.]

This reprints as part of its contents the two following:—

Report of the Trustees of the Museum of Comparative Zoölogy. 1861. 8°. Boston. 1861. pp. 50.

Contents.—(i.) App. C. Report of the Director of the Museum for the year 1859, presented January, 1860. By L. Agassiz. pp. 33-37 (same as the preceding (ii.) App. C.)—(ii.) App. D. Report of the Committee on the Museum, presented October, 1860. pp. 38-42 (same as the preceding (ii.), App. D.)—(iii.) App. E. Report of the Director of the Museum for the year 1860, submitted January, 1861. By L. Agassiz. pp. 43-49 (same as the preceding (ii.) App. E.).

This and the following reports up to 1876 were issued by the Commonwealth, as Senate documents. This is Senate, No. 37.

Annual Report of the Trustees of the Museum of Comparative Zoölogy, together with the Report of the Director. 1862. By L. Agassiz. 8°. Boston. 1862. pp. 18. Senate, No. 53.

Same as report of the committee of the overseers above, (iii.).

Annual report of the Trustees of the Museum of Comparative Zoölogy, together with the Report of the Director. 1862. By L. Agassiz. 8°. Boston. 1863. pp. 41. Senate No. 32.

Contents.—App. A. Fourth Annual Report of the Museum, by L. Agassiz, presented October, 1862. pp. 5-40. Distinct from the preceding.

Annual Report of the Trustees of the Museum of Comparative Zoölogy (at Harvard College, in Cambridge), together with the Report of the Director. 1863-72. By L. Agassiz. 10 nos, 8°. Boston. 1864-73.

The seventh report, 1865, and in part the eighth, 1866, were prepared by A. Agassiz, assistant in charge. 1863. pp. 56. Senate, no. 22.—1864, pp. 51, Senate, no. 96.—1865, pp. 32, Senate, no. 67.—1866, pp. 37, Senate, no. 52.—1867, pp. 32, Senate, no. 218.—1868, pp. 46, Senate, no. 60.—1869, pp. 41, Senate, no. 170.—1870, pp. 35, Senate, no. 327.—1871, pp. 35, Senate, no. 249.—1872, pp. 36, Senate, no. 252.

Annual Report of the Trustees of the Museum of Comparative Zoölogy at Harvard College, in Cambridge, together with the Report of the Committee on the Museum. 1873-74. 2 nos. 8°. Boston. 1874-75.

The report for 1873 is by A. Agassiz; that for 1874 by A. Agassiz and T. Lyman. 1873, pp. 30, Senate, no. 200.—1874, pp. 26, Senate, no. 75.

Annual Report of the Trustees of the Museum of Comparative Zoölogy, at Harvard College, in Cambridge, together with the Report of the Curator to the Committee on the Museum, for 1875-76. By A. Agassiz. 2 nos. 8°. Boston. 1876-77.

1875, pp. 58, portr., pl. 3, Senate, no. 10.—1876, pp. 47, Senate, no. 5.

Annual Report of the Curator of the Museum of Comparative Zoölogy, at Harvard College to the President and Fellows of Harvard College for 1877-80. By A. Agassiz. 3 nos. 8°. Cambridge. 1878-80.

1877-78, pp. 40, pl. 2.—1878-79, pp. 28.—1879-80, pp. 29, pl. 5.

. These reports contain special reports on departments of the Museum by Messrs. A. Agassiz, J. A. Allen, J. G. Anthony, A. S. Bickmore, J. H. Blake, R. Bliss, Jr., W. Faxon, S. W. Garman, H. A. Hagen, C. E. Hamlin, A. Hyatt, L. Lesquereux, G. A. Maack, J. McCrady, C. R. Osten Sacken, A. S. Packard, Jr., J. B. Perry, L. F. de Pourtales, F. W. Putnam, O. H. St. John, S. H. Scudder, N. S. Shaler, F. R. Staehli, F. Steindachner, P. R. Uhler, A. E. Verrill, J. D. Whitney.

MISCELLANEOUS.—List of American fossils which can be furnished in exchange by the Museum. 16°. N.P., N. D., pp. 8.

List of European fossils which can be furnished in exchange by the Museum. 16° N. P., N. D., pp. 12.

Directions for collecting objects of natural history. 8°. Cambridge. N. D. pp. 8.

Articles of agreement between the Trustees of the Museum of Comparative Zoölogy and the President and Fellows of Harvard College. 8°. Boston. 1859. pp. 8.

Charter of the Museum of Comparative Zoölogy, with a list of the Trustees, the by-laws, and other papers. 1859. 8°. Boston. 1859. pp. 32.

An account of the organization and progress of the Museum of Comparative Zoölogy at Harvard College, in Cambridge, Mass. 8°. Cambridge. 1871. pp. 32, pl. 5.

The Organization and Progress of the Anderson School of Natural History at Penikese Island. Report of the Trustees for 1873. By A. Agassiz. 8°. Cambridge. 1874. pp. 30, pl. 5.

PEABODY MUSEUM OF AMERICAN ARCHÆOLOGY AND ETHNOLOGY.

First(-Seventh) Annual Report of the Trustees of the Peabody Museum of American Archæology and Ethnology, presented to the President and Fellows of Harvard College (by Jeffries Wyman), 1868-74. 7 nos. 8°. Cambridge. 1868-74.

1. pp. 28. — 2. pp. 23. — 3. pp. 15. — 4. pp. 27. — 5. pp. 35. — 6. pp. 27. — 7. pp. 43. These Reports contain notices of explorations and collections by the Curator, among which may be specified: On the Shell Heaps of the St. John's River, Fla. (i. 11-18). — The Mortillet Collection (ii. 6-7). — The Rose Collection (ii. 8-11). — Observations on Crania and other Parts of the Skeleton (iv. 10-24). — The Clément Collection (v. 6-11). — Explorations in Tennessee (v. 11-22). — Explorations in Florida (v. 22-25). — The Nicolucci Collection (vi. 7-12). — Explorations on the St. Clair River, Michigan, by H. Gillman (vi. 13-19). — The Agassiz Collection (vii. 7-24). — Human Remains in the Shell Heaps of the St. John's River, East Florida; Cannibalism (vii. 26-37).

Eighth Annual Report of the Trustees of the Peabody Museum of American Archæology and Ethnology, presented to the President and Fellows of Harvard College (by Asa Gray), 1875. 8°. Cambridge. 1875. pp. 61.

The Report on the Additions to the Museum (pp. 12-52) is by F. W. Putnam, and is mostly occupied with an account of the Swallow Collection of Missouri Pottery (pp. 16-46), and of explorations in Kentucky (pp. 47-52).

Ninth Annual Report of the Trustees of the Peabody Museum of American Archæology and Ethnology, presented to the President and Fellows of Harvard College (by F. W. Putnam), 1876. 8°. Cambridge. 1876. pp. 56.

Contains (pp. 31-56) a General Index to Reports 1-9, which are thus made to form Vol. I., which also contains title-page (like the next) and preface (1 p.) and portraits of Peabody and Wyman.

Reports of the Peabody Museum of American Archæology and Ethnology, in connection with Harvard University (by F. W. Putnam). Vol. II. 1876-79. 8°. Cambridge. 1880. pp. 7, 775, map, pl. and illustr.

Contents. — 10. 1877, pp. 1-167. *Appendices.* — (i.) Report on the Discovery of supposed Paleolithic Implements from the Glacial Drift, in the Valley of the Delaware River, near Trenton, New Jersey, by C. C. Abbott. pp. 30-43. — (ii.) Report on the age of the Delaware Gravel Beds containing Chipped Pebbles, by N. S. Shaler. pp. 44-47. — (iii.) Report on Exploration of Ash Cave in Benton Township, Hocking Co., Ohio, by E. B. Andrews. pp. 48-50. — (iv.) Report of Explorations of Mounds in Southeastern Ohio, by E. B. Andrews. pp. 51-74. — (v.) Report on the Exploration of a Mound in Lee Co., Virginia, by L. Carr. pp. 75-94. — (vi.) On the Art of War and Mode of Warfare of the Ancient Mexicans, by A. F. Bandelier. pp. 95-161.

11. 1878, pp. 169-457. *Appendices.* — (i.) Second Report on the Paleolithic Implements from the Glacial Drift, in the Valley of the Delaware River, near Trenton, New Jersey, by C. C. Abbott. pp. 225-257. — (ii.) The Method of Manufacture of several Articles by the former Indians of Southern California, by P. Schumacher. pp. 258-268. — (iii.) Cave Dwellings in Utah, by E. Palmer. pp. 269-272. — (iv.) The Manufacture of Soapstone Pots by the Indians of New England, by F. W. Putnam. pp. 273-276. — (v.) Notes on a Collection from the Ancient Cemetery at the Bay of Chacota, Peru, by J. H. Blake. pp. 277-304. — (vi.) Archæological Explorations in Tennessee, by F. W. Putnam. pp. 305-360, map. — (vii.) Observations on the Crania from the Stone Graves in Tennessee, by L. Carr. pp. 361-384. — (viii.) On the Distribution and Tenure of Lands, and the Customs with respect to Inheritance, among the Ancient Mexicans, by A. F. Bandelier. pp. 385-448.

12-13. 1880, pp. 458-775. *Appendices.* — (i.) Measurements of Crania from California by L. Carr. pp. 497-505. — (ii.) Flint Chips, by C. C. Abbott. pp. 506-520. — (iii.) The Method of manufacturing Pottery and Baskets among the Indians of Southern California, by P. Schumacher. pp. 521-525. — (iv.) Aboriginal Soapstone Quarries in the District of Columbia, by E. R. Reynolds. pp. 526-535. — (v.) On the Ruins of a Stone Pueblo on the Animas River in New Mexico; with a Ground Plan, by L. H. Morgan. pp. 536-556. — (vi.) On the Social Organization and Mode of Government of the Ancient Mexicans, by A. F. Bandelier. pp. 557-699.

UNIVERSITY PUBLICATIONS.

Annual Reports of the President and Treasurer of Harvard College. 1869-70 to 1879-80. 10 vols. 8°.

These reports contain also the departmental reports submitted to the Corporation.

Catalogus Senatus Academici Collegii Harvardiani, et eorum qui muneribus et officiis

præfuerunt quique honoribus academicis donati sunt, in Universitate quæ est Cantabrigiæ in Civitate Massachusettensium. MDCCCLXXII., MDCCCLXXV., et MDCCCLXXX.

These three volumes, the first two triennial, and the last quinquennial (as the issues will hereafter be), were edited by John Langdon Sibley, Librarian and Librarian Emeritus. The last was accompanied by a circular, "Harvard Quinquennial Catalogue, 1880," drawing attention to graduates from 1642 to 1820, about whom information is wanted.

The Harvard University Catalogue, 1869-70 to 1879-80. 10 volumes. 16°.

The first volume had the imprint "Cambridge: Sever, Francis, & Co."; the second and third volumes, "Cambridge: Riverside Press"; and later volumes, "Cambridge: published for the University, by Charles W. Sever." The first two years were edited by John Langdon Sibley, Librarian, and succeeding volumes by G. A. Hill (1872-74); W. H. Pettee (1874-76); C. L. Smith (1876-77); G. R. Briggs (1877-79); and H. R. Wheeler (1879-80).

The following publication is not official, but is a convenient companion to the Catalogue as placing the names in one alphabetical list, and as presenting the Officers and Members of all the College Societies:

The Harvard Index, 1873-74 to 1879-80. 7 Vols. 16°.

PUBLICATIONS OF THE OFFICERS.

Ezra Abbot.

Assistant Librarian, 1856-1872. Bussey Professor of New Testament Criticism and Interpretation, 1872-.

1. A Critical Greek and English Concordance of the New Testament. Prepared by Charles F. Hudson . . . revised and completed by Ezra Abbot. . . Boston, 1870, 16°; 3d edition with Supplement complete. 1875. 16°. xxii, 508.
2. Review of Trench's Synonyms of the New Testament. [With a special discussion of the distinction between *αἰνέω* and *ἐπαινέω*.] (*North American Review*, Jan. 1872; CXIV. 171-189.)
3. On the Comparative Antiquity of the Sinaitic and Vatican Manuscripts of the Greek Bible. (*Journal of the American Oriental Society*, X. part 1 (1872), 189-200, also 602.)
4. Reports on the Bucknell Library of Crozer Theological Seminary, by Rev. Prof. C. P. Krauth, D.D., and Prof. Ezra Abbot. Philadelphia, 1874, 8°, pp. 15.
5. The late Prof. Tischendorf. (*Unitarian Review*, March, 1875; III. 217-236; and reprinted in Dickinson's *Theological Quarterly*, London.)
6. On the Reading "An only-begotten God" or "God only-begotten," John i. 18. (*Unitarian Review*, June, 1875; III. 560-571.)
7. The late Dr. Tregelles. (*Independent* (N. Y.), July 1, 1875, pp. 3, 4; and reprinted, Plymouth [Eng.], 1875, 24°, pp. 20.)
8. On the Reading "Church of God," Acts xx. 28. (*Bibliotheca Sacra*, April, 1876; XXXIII. 313-352.) First privately printed for the American Bible Revision Committee.
9. American Oriental Society. [With some notice of Max Müller's attack on Prof. W. D. Whitney.] (*Bibliotheca Sacra*, July, 1877; XXXIV. 557-562.)
10. Article "Septuagint" in Johnson's *New Universal Cyclopædia*, IV. New York, 1878.
11. On the Reading *ἐν ᾧ* (supposed imperfect of *ἐσθαι*), John viii. 44. pp. 6. (Privately printed for the American Bible Revision Committee. 1878.)
12. The New Testament Text. — The Imperfection of the Greek Text from which our Common English Version was made, and our Present Resources for its Correction. (*Sunday-School World* (Phila.), Oct. 1878; reprinted, with some changes, in *Anglo-American Bible Revision* by members of the American Revision Committee. New York, 1879, 12°, pp. 86-98.)
13. Ancient Papyrus, and the Mode of making Paper from it. (*Library Journal*, Nov. 1878; III. 323, 324.)
14. Dr. Todd on Bible Revision. (*Christian Intelligencer* (N. Y.), Nov. 21, 1878.)

15. Reply of Prof. Abbot to the Letter of Dr. Todd. (*Christian Intelligencer*, April 17 and 24, 1879.)
16. I. John v. 7 and Luther's German Bible. (*Christian Intelligencer*, May 15, 1879.)
17. The Authorship of the Fourth Gospel: External Evidences. Boston, 1880, 8°, pp. 104. (First printed in the *Unitarian Review*, Feb., March, and June, 1880; also included in the volume of *Institute Essays*, Boston, 1880.)

. Professor Abbot also served from 1872 to 1880 as a member of the New Testament Company of the American Bible Revision Committee. See also the Bulletin of the Library.

Henry Adams.

Assistant Professor of History, 1870-1877.

1. New York Gold Conspiracy. (*Westminster Review*, Oct. 1870, XCIV. 411; reprinted in No. 2.
2. Chapters of Erie and other Essays, by C. F. Adams, Jr., and Henry Adams. Boston, 1871.
3. Essays in Anglo-Saxon Law. Boston, 1876.
4. Documents relating to New England Federalism, 1800-1815, edited by Henry Adams. Boston, 1877.
5. The Life of Albert Gallatin. Philadelphia, 1879.
6. The Writings of Albert Gallatin, edited by Henry Adams. 3 vols. Philadelphia, 1879.

. Professor Adams was Editor of the *North American Review*, Jan. 1871-July 1872; April 1874-Oct. 1876. The following are some of his articles and notices: The Session, CXI. 29; Harvard College, 1786-87, CXIV. 110; Freeman's Historical Essays, CXIV. 193; Maine's Village Communities, CXIV. 196; Freeman's History of the Norman Conquest, CXVIII. 176; Coulanges's Ancient City, CXVIII. 390; Sohm's Procédure de la Lex Salica, CXVIII. 416; Stubbs's Constitutional History of England, CXIX. 233, and CXXIII. 161; Kitchin's History of France, CXIX. 442; Parkman's Old Régime in Canada, CXX. 175; Von Holst's Administration of Andrew Jackson, CXX. 179; The Quincy Memoirs and Speeches, CXX. 235; Bancroft's History of the United States, CXX. 424; Maine's Early History of Institutions, CXX. 432; Palgrave's Poems, CXX. 438; Green's Short History of the English People, CXXI. 216; Tennyson's Queen Mary, CXXI. 422; Palfrey's History of New England, CXXI. 473; Von Holst's History of the United States, CXXIII. 328 (with H. C. Lodge); The "Independents" in the Canvass, CXXIII. 426 (with C. F. Adams, Jr.).

Alexander Agassiz.

Assistant in the Museum of Comparative Zoölogy, 1860-1874; Curator of the Museum of Comparative Zoölogy, 1875-.

1. Note on Lovén's Article on *Leskia mirabilis* Gray. (*Ann. N. Y. Lyceum Nat. Hist.*, 1870; IX. 242-245.)
2. The development of Echini. (*Monthl. Micr. Journ.*, 1870; III. 251-252.)

3. Sur le Commensalisme dans le Règne Animal. (*Bull. Acad. Sc. Belg.*, 1870; XXIX. 179-180.)
 4. Marine Animals of Massachusetts Bay, by Alexander and Elizabeth C. Agassiz, 2d ed. 80. Boston, 1871.
 5. Notes on Beaver Dams. (*Proc. Bost. Soc. Nat. Hist.*, 1871; XIII. 101-104.)
 6. On the habits of a few Echinoderms. (*Proc. Bost. Soc. Nat. Hist.*, 1871; XIII. 104-107.)
 7. The history of Balanoglossus and Tornaria. (*Mém. Amer. Acad.*, 1872; N.S., IX. 421-436. 3 pl.)
 8. Notice of Dr. J. E. Holbrook. (*Proc. Amer. Acad.*, 1872; VIII. 473-474.)
 9. Sur le Développement des Tentacules des Arachnactis et des Edwardsies. (*Archiv. Zool. Expér.*, 1873; II. 38-39.)
 10. The Homologies of Pedicellariæ. (*Amer. Nat.*, 1873; VII. 398-406.)
 11. Embryology of Ctenophoræ. (*Mem. Amer. Acad.*, 1874; N. S. X. 357-398, 5 pl., cuts.)
 12. Note sur la Fertilisation Artificielle de deux Espèces d'Étoiles de Mer. (*Arch. Zool. Expér.*, 1874; III. 46.)
 13. Critique de la Gastraea Théorie; traduction par M. A. Schneider. (*Arch. Zool. Expér.*, 1875; IV. 9-13.)
 14. On Viviparous Echini from Kerguelen Island. (*Proc. Amer. Acad.*, 1876; XI. 231-236, cuts.)
 15. Hydrographic Sketch of Lake Titicaca. (*Proc. Amer. Acad.*, 1876; XI. 283-295, map.)
 16. Sur le Développement des Pleuronectes. (*Journ. Zool.*, 1877; VI. 194-197.)
 17. Notice of Karl Ernst von Baer. (*Proc. Amer. Acad.*, 1877; XII. 331-335.)
 18. On the Young Stages of some Osseous Fishes. I. Development of the Tail. (*Proc. Amer. Acad.*, 1877; XIII. 117-126, 2 pl.)—The same. II. Development of the Flounders. (*Proc. Amer. Acad.*, 1878; XIV. 1-25, 8 pl.)
 19. The Development of Lepidosteus, Part I. (*Proc. Amer. Acad.*, 1878; XIV. 65-76, 5 pl.)
 20. Preliminary Report on the Echini of the Exploring Expedition of H. M. S. Challenger, Sir C. Wyville Thomson Chief of Civilian Staff. (*Proc. Amer. Acad.*, 1879; XIV. 190-212.)
 21. Paleontological and Embryological Development. Address before the American Association for the Advancement of Science in August, 1880. 80. Salem, 1880, pp. 26.
 22. Notes on some Points in the History of the Nomenclature of Echini. (*Proc. Zool. Soc. Lond.*, 1880, 33-38.)
- The following reviews and minor papers:
23. In the *American Journal of Science*, 3d series: Claparède on Marine Bryozoa, 1871, I. 387. Claparède's Annélides du Golfe de Naples, 1871, II. 61-62. Metschnikoff on the Affinities of Corals, 1871, II. 220-221. Obituary of Claparède, 1871, II. 229-230. Allman's Monograph of the Gymnoblasic or Tubularian Hydroids, 1873, V. 145-148. Kowalewsky's Embryological Papers, 1874, VII. 470-471. Embryology of the Ctenophoræ [criticising Haeckel's Gastraea Theory], 1874, VIII. 471-476. Instinct in Hermit Crabs, 1875, X. 290-291. Haeckel's Ziele und Wege der heutigen Entwicklungsgeschichte, 1876, XI. 74. Haeckel's Allaeogenesis, 1876, XI. 420, 421. Thomson's Echini of the "Porcupine" and "Challenger," 1877, XIII. 164. Leuckart and Nitzsch's Zoological Diagrams, 1877, XIV. 500-501. Habits of Young Limulus, 1878, XV. 75-76. The Zoologischer Anzeiger, 1878, XVI. 405. Former Extension northward of the South American Continent, 1879, XVIII. 230-232. Haeckel's System der Medusen, 1880, XIX. 245-248. Obituary of L. F. de Pourtales, 1880, XX. 253-255.
 24. In the *American Naturalist*: Lankester on Limulus, 1871, V. 555-561. Systematic Zoology and Nomenclature, 1871, V. 353-356. The Zoological Station of Naples, 1872, VI. 686-687. Arachnactis the Young of Edwardsia, 1872, VI. 770-771. Delesse's Geology of the Sea Bottom, 1873, VII. 160-163. On Tornaria, 1874, VIII. 429. Haeckel's Gastraea Theory, 1876, X. 73-75. Huxley and Martin's Biology, 1876, X. 228-229. The Development of Flounders, 1876, X. 705-708.
 25. In *Nature*: Cotteau's Echinides de la Sarthe, 1871, IV. 220-221. Originators of Glacial Theory, 1873, VIII. 25. Agassiz and Forbes, 1873, VIII. 222-223. Misti and its Cloud, 1875, XIII. 107-108. The Challenger Collections, 1877, XV. 256. Some Results of Deep-sea Dredging, 1877, XVI. 149. Antiquity of Ocean Basins, 1880, XXI. 587-588. Obituary of L. F. de Pourtales, 1880, XXII. 371-372.
 26. In *The Nation*: Thomson's The Depths of the Sea, 1873, XVI. 336-337. Life and Letters of Principal Forbes, 1873, XVI. 369-371. Haeckel on the Evolution of Man, 1879, XXIX. 429-430.
- See also the Reports, Bulletin, and Memoirs of the Museum of Comparative Zoology.

Louis Agassiz.

Director of the Museum of Comparative Zoology, 1859-1873.

1. Geological Sketches, First Series. 160. Boston, 1870 (cop. 1866). pp. v, 311, *portr.* and *illustr.*
2. Geological Sketches, Second Series. 160. Boston, 1876, pp. 229.
3. Methods of Study in Natural History. 160. Boston, 1870, etc. (cop. 1863). pp. viii, 319, *illustr.*
4. A Journey in Brazil, by Professor and Mrs. Louis Agassiz. 80. Boston, 1871 (cop. 1867). pp. xix, 540, *illustr.*
5. On the Former Existence of Local Glaciers in the White Mountains. (*Proc. Amer. Assoc. Adv. Sc.*, 1870; XIX. 161-167; *Amer. Nat.*, 1871; IV. 550-558.)
6. The Structure and Growth of Domesticated Animals. A Lecture delivered before the State Board of Agriculture at Barre, Dec. 3, 1872. 80. Boston, 1873, pp. 21; reprinted (*Amer. Nat.*, 1873; VII. 641-657).
7. Notice of Dr. J. E. Holbrook. (*Proc. Bost. Soc. Nat. Hist.*, 1871; XIV. 347-351.)
8. Mode of Copulation among the Selachians. (*Proc. Bost. Soc. Nat. Hist.*, 1871; XIV. 339-341.)

9. Fish-nest in the Sea-weed of the Sargasso Sea. (*Amer. Journ. Science*, 1872, 3 ser. III. 154-156; *Ann. Mag. Nat. Hist.*, 1872, 4 ser. IX. 243-245; *Can. Nat.*, 1872, n. s. VI. 354-356; *Monthl. Micros. Journ.*, 1872; VII. 129-130; *Bull. Soc. Sc. Neuchâtel*, 1873; IX. 165-169.)
 10. Deep Sea Explorations; more about Trilobites. (*Can. Nat.*, 1872, n. s. VI. 358-361.)
 11. Glacial Action in Fuegia and Patagonia. (*Amer. Journ. Sc.*, 1872; 3 ser. IV. 135-136.)
 12. Sketch of a Voyage from Boston to San Francisco. (*Report Smiths. Inst.*, 1872, 87-92; *Revue Cours Scient.*, 1873; IV. 1077-1093.)
 13. Evolution and Permanence of Type. (*Atlantic Monthly*, Jan. 1874; XXXIII. 92-101. Separate, pp. 12.)
 14. Three Different Modes of Teething among Selachians. (*Amer. Nat.*, March, 1874; VIII. 129-135.)
- *. See also the Reports, Bulletin, and Memoirs of the Museum of Comparative Zoology.

Joel Asaph Allen.

Assistant in Ornithology, 1871-

1. Notes on the Geological Character of the Country between Chique-Chique, on the Rio de São Francisco, and Bahia, Brazil. (In *Geology and Physical Geography of Brazil*. By Ch. Fred. Hartt. Boston, 1870. 309.)
2. Catalogue of the Birds of Iowa. (*White's Geolog. Survey of Iowa*, II. 1870, Appendix B. 419.)
3. Sexual Variation in the Genus *Leucosticte*. (*Field and Forest*, 1876, II. 76.)
4. The Extirpation of the larger Indigenous Mammals of the U. S. (*Penn Monthly*, 1876, VII. 794.)
5. On the Decrease of Birds in the U. S. (Id. 1876, VII. 931.)
6. Description of some Remains of an Extinct Species of Wolf and an Extinct Species of Deer from the Lead Region of the Upper Mississippi. (*Amer. Journ. Sci. and Arts*, 1876, 3d Ser., XI. 47.)
7. Description of a new Generic Type (*Bassaricyon*) of Procyonidae from Costa Rica. (*Proc. Acad. Nat. Sci. Phila.* 1876, 20.) *Bassaricyon gabbi*. gen. et sp. n.
8. Additional Note on *Bassaricyon gabbi*. (Id. 1877. 267.)
9. The Influence of Physical Conditions in the Genesis of Species. (*Radical Review*, 1877, I. 108.)
10. History of the American Bison, *Bison americanus*. (*Ninth Ann. Rep. U. S. Geol. Survey for the Year 1875*, 1877. 443; reprinted, with Additions and Revision, from *Mem. Geol. Surv. Kentucky*, 1876, I. pt. ii. and *Memoirs of the Mus. Comp. Zool.* IV., Pt. 10. 1876.)
11. Elliott Coues and J. A. Allen. Monographs of North American Rodentia. (*Rep. of the U. S. Geol. and Geogr. Survey of the Territories*. XI. Washington, 1877: 40. i-x. 1-1091; pll. i-v.) Monograph II. Leporidae, by J. A. Allen, 265; Mon. III. Hystricidae, do., 379; Mon. IV. Lagomyidae, do., 399; Mon. V. Castoroididae, do., 415; Mon. VI. Castoridae, do., 427; Mon. XI. Sciuridae, do., 631; Appendix A. Synoptical List of the Fossil Rodentia of North America, do., 943.
12. History of North American Pinnipeds, a Monograph of the Walruses, Sea-lions, Sea-bears and Seals of North America. Washington, 1880. (*U. S. Geol. and Geogr. Surv. Territories*, Miscel. Publ. No. XII.) 80. i-xvi, 1-785.
13. Notes on the Mammals of Portions of Kansas, Colorado, Wyoming and Utah. (*Bulletin Essex Institute*, 1874, VI. 43.)
14. List of Birds collected by Mr. Charles Linden, near Santarem, Brazil. (Id. 1876, VIII. 78.)
15. A List of the Birds of Massachusetts, with Annotations. (Id. 1878, X. 3.)
16. In *American Naturalist*: A Spike-horned Moose, 1870, IV. 443. What is the "Washington Eagle?" 1870, IV. 524. The Distribution of the Moose in New England, 1870, IV. 535. Flora of the Prairies, 1870, IV. 577. The Fauna of the Prairies [of the United States], 1871, V. 4. The Classification of the Eared Seals, 1871, V. 37. Ornithological Notes from the West, 1872, VI. 263. "Spike-horned Mule-Deer," 1872, VI. 692. Laws of Geographical Variation in North American Mammals and Birds, 1874, VIII. 227. Influence of Elevation and Latitude upon the Distribution of Species, 1875, IX. 181. The Availability of certain Bartramian Names in Ornithology, 1876, X. 21. The Extinction of the Great Auk [*Alca impennis*] at the Funk Islands, 1876, X. 48. Bartramian Names again: An Explanation, 1876, X. 176. Progress of Ornithology in the United States during the last century, 1876, X. 536. The Former Range of some New England Carnivorous Mammals, 1876, X. 708.
17. In *Proceedings of Boston Society of Natural History*: Notes on Massachusetts Reptiles and Batrachians, 1870, XIII. 260. [On Geographical Variation in Mammals and Birds], 1872, XV. 156. Geographical Variation in North American Birds, 1872, XV. 212. Metamorphism produced by the burning of Lignite Beds in Dakota and Montana Territories, 1874, XVI. 246. On Geographical Variation in Color among North American Squirrels; with a list of the Species and Varieties of the American Sciuridae occurring north of Mexico, 1874, XVI. 276. Notes on the Natural History of Portions of Dakota and Montana Territories, being the substance of a report to the Secretary of War on the collections made by the North Pacific Railroad Expedition of 1873, 1874, XVII. 33. (Also sep. pamph. of 61 pp. 80, Boston, 1874.) [Note on *Ammodromus caudatus* var. *Nelsoni*, var. n. from Illinois.] 1874, XVII. 292. Synopsis of the American Leporidae, 1875, XVII. 430.
18. In *Bulletin of U. S. Geol. and Geogr. Survey of the Territories*: Geographical Variation among North American Mammals, especially in respect to size, 1876, II. 309. Sexual, Individual and Geographical Variation in *Leucosticte tephrocotis*, 1876, II. 345. The Geographical Distribution of the Mammalia, considered in Relation to the principal Ontological Regions of the Earth, and the Laws that govern the distribution of Animal Life, 1878, IV. 313. Description of a Fossil Passerine Bird from the Insect-bearing Shales of Colorado, 1878, IV. 443. Synonymatic List of the American Sciuri, or Arboreal Squirrels, 1878, IV. 877. On the Coatis (Genus *Nasua*, Storr). 1879, V. 153. On the Species of the Genus *Bassaris*, 1879, V. 331.

Mr. Allen edited the *Bulletin of the Nuttall Ornithological Club*. I-V. 1876-80. The following articles are by him:

19. Decrease of Birds in Massachusetts, 1876, I. 53. Geographical Variation in the Number and Size of the Eggs of [certain North American] Birds, 1876, I. 74. An Inadequate "Theory of Birds' Nests," 1878, III. 23. The Lark-Bunting (*Calamospiza bicolor*) in Massachusetts, 1878, III. 48. Occurrence of three Species of Sea-Ducks [*Eidemia americana*, *E. fusca*, *E. perspicillata*] at St. Louis, Missouri, 1878, III. 148. The Carolinian Fauna, 1878, III. 149. The Snow-Bird [*Junco hyemalis*] in Summer on Mount Wachusett, [Mass.] 1878, III. 192. Sabine's Gull [*Xema sabinei*] in Maine, 1878, III. 195. Nest and Eggs of the Cerulean Warbler [*Dendroica cerulea*], 1879, IV. 25. The Evening Grosbeak [*Hesperiphona vespertina*] in New Mexico, 1879, IV. 237. Eastward Range of the Western Meadow Lark [*Sturnella magna*, var. *neglecta*], 1880, V. 53. On Recent Additions to the Ornithological Fauna of North America, 1880, V. 85. Capture of Escaped Cage-birds having the Appearance of Wild Birds, 1880, V. 119. Note on the Little Brown Crane (*Grus fraterculus*, Cassin), 1880, V. 123. Destruction of Birds by Light-houses, 1880, V. 131. Origin of the Instinct of Migration in Birds, 1880, V. 151. List of the Birds of the Island of Santa Lucia, West Indies, 1880, V. 163. First Capture of the Blue Grosbeak [*Goniaphea cerulea*] in Massachusetts, 1880, V. 184.

. In addition to the above, Mr. Allen has written numerous reviews in periodicals. See also the Publications of the Museum of Comparative Zoology.

Joseph Henry Allen.

Lecturer on Ecclesiastical History, 1878-

1. Hebrew Men and Times from the Patriarchs to the Messiah. 2d ed. with Introduction. xxxvi., 435. Boston, 1879.
2. Fragments of Christian History, to the Foundation of the Holy Roman Empire. [Consisting of Introductory Address and Lectures delivered in course in the department of Ecclesiastical History.] xx. 284. Boston, 1880.
3. Contributions chiefly to the *Unitarian Review* for 1878-80, the most important of which are included in the above.
4. Annual Address before the Alumni of the Divinity School, June 29, 1880, "The Gospel of Liberalism"; included in a Pamphlet entitled
5. Three Phases of Modern Theology: Calvinism, Unitarianism, Liberalism. Boston, 1880. pp. 70.
6. Introduction to Latin Composition. Boston, 1880. (Prepared Part I. and edited the whole.)

James Barr Ames.

Tutor, 1871-1873; Assistant Professor of Law, 1873-1877. Professor of Law, 1877-

1. Cases on Torts. 1873-74.
2. Cases on Pleading at Common Law. 1874-75. pp. 300.
3. Article on "Harvard University" in Richardson and Clark's *College Book*. Boston, 1878. 4°.

4. Cases on Bills and Notes. 2 vols. 1880.
5. Cases on Trusts. Pamphlet.
6. Cases on Partnership. Pamphlet.

. Nos. 1, 2, 4, 5 and 6 are printed, not published, being for use in the Law School.

John Gould Anthony.

Assistant in Conchology, 1870-1877.

. See the Reports of the Museum of Comparative Zoology.

Edward Payson Austin.

Assistant in the Observatory, 1869-1871.

. See the Annals of the Astronomical Observatory.

William Henry Baker.

Instructor in Diseases of Women, 1875-77.

1. Cases of Amenorrhœa resulting from Undeveloped Uteri. (*New York Medical Journal*, June 1873; also printed separately, New York, 1873, pp. 7.)
2. Mechanical Appliances in Uterine Surgery. (*Boston Medical and Surgical Journal*, Sept. 1875; XCIII. 275 and 296; also printed separately, Cambridge, 1875, pp. 12.)
3. Lacerations of the Cervix Uteri as a Cause of Uterine Disease. (*Boston Medical and Surgical Journal*, Sept. 1877; XCVII. 323.)
4. Malpositions of the Ureters. (*New York Medical Journal*, Dec. 1878.)
5. The Abuse of Caustic in Gynæcology. (*Boston Medical and Surgical Journal*, Aug. 1878; XCIX. 208.)
6. Dermoid Cyst of the Ovary. (Id. Nov. 1879; CI. 686.)
7. Reports of Recent Progress in Gynæcology [with results of personal experience, made twice each year for the Journal since Jan. 1878]. (Id. 1878-1880. XCVIII. 40; XCIX. 78; C. 121; CI. 51; CII. 33; CIII. 30.)

Henry Harris Aubrey Beach.

Assistant Demonstrator of Anatomy, 1868-1878.

Demonstrator of Anatomy, 1878-

1. Editorials and Reviews published in the *Boston Medical and Surgical Journal* while Assistant Editor [from June, 1869, to 1 July, 1871].
2. Review of a Case of Unique Tumor of the Bladder. (*Boston Med. and Surg. Journ.* Dec. 1870; LXXXIII. 357.)
3. Hip-Joint Dislocation: Report of Cases treated at the Massachusetts General Hospital. (Id. Feb. 1871; LXXXIV. 121.)
4. Description of a new [Mass. Gen. Hosp.] Sinus Dilator. (Id. March, 1871; LXXXIV. 163.)
5. Foreign Body in the Appendix Vermiformis; Peritonitis; Death; Autopsy. (*New York Medical Journal*, Oct. 1871; 397; republished in the *Med. Chir. Rundschau*, Vienna.)
6. On Ligation of the Subclavian Artery. (*London Medical Times and Gazette*, 18 Nov. 1871.)

7. Massachusetts General Hospital Reports published in the Journal during the year 1874. (*Boston Med. and Surg. Journ.* 1874; XC. and XCI.)
8. Description of a new Ligament, with illustration. Proceedings of the Boston Society for Medical Improvement. (Id. Feb. 1875; XCII. 202.)
9. Surgical Operations at the Massachusetts General Hospital. Reports for 1875. (Id. 1875; XCII. and XCIII.)
10. Description and Dissection of a Monstrosity. (Id. 1875; XCII. 595.)
11. Series of Surgical Cases. (Id. 1876; XCIV. 231.)
 - i. Dislocation of the Tendon of the Peroneus Longus Muscle.
 - ii. Fracture of the Tympanic Plate of the Temporal Bone.
 - iii. Compound Crucial Fracture of the Condyles of the Femur.
 - iv. Penetrating Gun-shot Wound of the Chest.
12. On Excision of the Elbow-Joint. With Cases and Results. Illustrated. (Id. Jan. 1877; XCVI. 1.)
13. Proceedings of the Boston Society for Medical Observation. Antiseptic Surgery. (Id. Jan. 1880; CII. 35.)
 - i. Complete Excision of the Elbow-Joint for gun-shot injury. Recovery with a useful arm.
 - ii. Compound Comminuted Fracture into the Ankle-Joint, railroad injury, and Simple Fracture of both Thighs in the same patient. Amputation of Leg. Recovery, with good Union of both Thighs.
 - iii. Two Cases of Ovariectomy.
14. Laceration of the Anus, Rectum, and Posterior Wall of the Bladder by Impalement. Recovery. Proceedings of the Boston Society for Medical Improvement. (Id. Jan. 1880.)
15. Proceedings of the Boston Society for Medical Observation (Id. March, 1880; CII. 249.)
 - i. Innominate Aneurism. [Treatment by Tufnell's Method.]
 - ii. Styrene, a New Antiseptic. A Description of its Properties.
 - iii. Two Cases of Recovery from Severe Injuries:—
 - (1) Compound Comminuted Fracture of the Ulna, and Extensive Laceration of Soft Parts laying open the Elbow-Joint. Compound Fracture of the Tibia in close proximity to the Knee-Joint, and two Scalp-Wounds. Excision of Elbow-Joint and Free Incision of Knee-Joint.
 - (2) Compound Comminuted Fractures of the Bones and Lacerations of the Soft Parts of both Legs, Ankle-Joints, and Feet. Double Amputation of Thighs.
16. Discussion on Hydrophobia. Proceedings of the Boston Soc. for Med. Improvement. (Id. May, 1880; CII. 489.)
17. Semi-Annual Reports on "Recent Progress in Surgery." (Id. June, 1880; CII. 535; and Dec. 1880; CIII. 539.)

Edmund Hatch Bennett.

Lecturer on Criminal Law and the Law of Wills, 1870-1871.

Mr. Bennett edited:

1. Story's Commentaries on the Law of Bailments. 8th ed. Boston, 1870. 8°.
2. W. W. Story's Treatise on the Law of Sales. 4th ed. Boston, 1871. 8°.
3. Story's Commentaries on the Conflict of Laws. 7th ed. Boston, 1872. 8°.

Henry Jacob Bigelow.

Professor of Surgery, 1849-.

1. Medical Education in America. Cambridge, 1871. pp. 83. (Also in *Med. Communications of Mass. Med. Soc.* XI. 181. Boston, 1874.)
2. Alleged Death from Ether. (*British Medical Journal.* Also *Boston Med. and Surg. Journal*, Nov. 1873; LXXXIX. 497.)
3. The True Neck of the Femur; its Structure and Pathology. (*Boston Med. and Surg. Journal*, Jan. 1875; XCII. 1, 25.)
4. Turbinate Corpora Cavernosa. (Id. April, 1875; XCII. 489.)
5. A History of the Discovery of Modern Anæsthesia: (*Am. Journal of the Medical Sciences*, 1876; LXXI. 164.)
6. New Methods in the Treatment of Exstrophy of the Bladder and of Erectile Tumors. (*Boston Med. and Surg. Journal*, Jan. 1876; XCIV. 1.)
7. Lithotripsy by a Single Operation. (*Am. Journal of Med. Sciences*, Jan. 1878; LXXV. 117. Also, with additions, in *Boston Med. and Surg. Journal*, Feb. and March, 1878; XCVIII. 259, 291.)
8. Rapid Lithotripsy with Evacuation. Boston and New York, 1878.
9. Litholopaxy. Letter to the London Lancet. (*Boston Med. and Surg. Journal*, May, 1879; C. 759.)
10. Two Lectures on the Modern Art of Promoting the Repair of Tissue. (Id. June, 1879; C. 769.)
11. Litholopaxy. (*New York Medical Record*, 1879; XV. 593. Also *Boston Med. and Surg. Journal*, June, 1879; C. 866.)
12. Litholopaxy. (*New York Medical Record*, 1879; XVI. 306.)
13. Litholopaxy. (*Boston Med. and Surg. Journal*, Oct. 1879; CI. 539.)
14. Litholopaxy. An Improved Evacuator. (Id. Jan. 1880; CII. 30.)

Clarence John Blake.

Clinical Lecturer on Otology, 1870-.

1. On the Etiology of Acquired Deaf-Mutism, having especial reference to the effects of Scarlet Fever. (*Boston Med. and Surg. Journal*, Dec. 1870; LXXXIII. 405.)

2. Rüdinger's Atlas of the Osseous Anatomy of the Human Ear. 9 photographic plates. Boston, 1870-74.
3. Parasitic Growths in the External Auditory Canal. (*Boston Medical and Surgical Journal*, Aug. 1871; LXXXV. 106.)
4. Report on Progress of Otology. Read before Am. Otological Society, 5th Ann. Meeting. Boston, 1872. pp. 46.
5. Summary of Experiments on the Perception of High Musical Tones. (*Transactions American Otological Society*, 5th Annual Meeting, 1872. Boston, 1874.)
6. Caries of the External Auditory Canal. (Id. 80.)
7. A Middle Ear Mirror. (Id. 83.)
8. Living Larvæ in the Human Ear. (*Archives of Ophthalmology and Otology*, II. No. 2. 37. New York, 1872.)
9. Reaction of the Auditory Nerve under the Influence of the Galvanic Current. (*Trans. Am. Otological Soc.* 6th Ann. Meeting. 116.)
10. Diagnostic Value of High Musical Tones. (Id. 118.)
11. Statistical Report of 1652 Cases of Diseases of the Ear. (*Arch. of Ophthalm. and Otol.* III. No. 1. 84.)
12. Clinical Lecture on Examination of the Ear. (*Boston Med. and Surg. Journal*, Sept. 1873; LXXXIX. 252.)
13. Mechanical Value of the Distribution of Weight in the Oscicula [Auditus]. (*Trans. Am. Otological Society*, 7th Ann. Meeting. Boston, 1874. 543.)
14. Perforations of the Membrane of Shrapnell in Purulent Inflammation of the Middle Ear. (Id. 546.)
15. Summary of Observations on the Effect of the Galvanic Current upon the Auditory Nerve. (*Archives of Scientific and Practical Medicine*, New York.)
16. Intra-Tympanic Pressure during Phonation. (*Trans. Am. Otological Soc.* 8th Annual Meeting. Boston, 1875. 75.)
17. A New Use of the Membrana Tympani in Physical Experiments. Illustrated Lecture before the Mass. Med. Soc. Ann. Meeting, 1875.
18. The Use of the human Membrana Tympani as a Phonautograph and Logograph. (*Archives of Ophthalm. and Otology*, New York.)
19. The Application of Paper Dressings in the treatment of Perforations of the Membrana Tympani. (*Trans. International Otological Congress*, New York.)
20. On the Best Mode of Testing the Hearing of School Children. (*Trans. International Medical Congress of Philadelphia*, 1876. Phila. 1877. 992.)
21. Deafness in School Children. (*Social Science Congress*, Saratoga.)
22. Manometric Cicatrix of the Membrana Tympani. (*Archives of Ophthalm. and Otology*, New York.)
23. A Peculiar Form of Obstruction of the External Auditory Canal. (*Archives of Clinical Surgery*, New York.)
24. Sound in relation to the Telephone. (*Journal of Soc. of Telegraph Engineers*, London, 1878, VII. 247.)
25. The Ear and the Telephone. Illustrated Lecture, Harvard Nat. Hist. Soc.
26. Graphic and Photographic Illustration of Sound Waves. (*American Journal of Otology*, I.)
27. Logographic Value of Consonant Sounds in relation to their Transmission by Telephone. (Id.)
28. Later Experiments on the Audibility of High Musical Tones. (Id.)
29. A Physical Basis for the Use of "Bad Language," Logographic Experiments. (*Am. Assoc. for Advancement of Science*, Saratoga.)
30. Acupuncture and Drainage in the Treatment of Acute Inflammation of the Middle Ear. (*Trans. Am. Otological Soc.* 1879.)
31. Children's Earache. (*Boston Med. and Surg. Journal*, Feb. 1880; CII. 130.)
32. A Form of Middle Ear Syringe. (*Am. Journal of Otology*, II.)
33. On the Occurrence of Exostoses within the External Auditory Canal in Pre-Historic Man. (Id.)
34. The Membrana Tympani Telephone. (Id.)
35. Additional Cases of Manometric Cicatrix. (Id.)
36. Reports on the Progress of Otology. (*Trans. Am. Otological Soc.*, 1872, 1874, 1875, 1877, 1878. *Trans. Internat. Otological Congress*, 1876.)
37. Otological Reviews while Associate Editor of *Archives of Ophthalmology and Otology*, 1874-78. Editorials and Reviews as Editor of *American Journal of Otology*, 1879-80.
38. The Telephone and Microphone in Auscultation. (*Boston Med. and Surg. Journal*, Nov. 1880; CIII. 486.)

Edward Augustus Bogue.

Lecturer on Dental Pathology and Therapeutics, 1870-1875.

1. Bleaching Teeth. (*Dental Cosmos*, Jan. 1872; XIV. No. 1.)
2. The Physical Properties and Physiological Action of Dental Amalgams. (*Trans. of New York Odontological Society*, Dec. 1874; Phila. 1875. 43; and in *Dental Cosmos*, March, 1875; XVII. No. 3.)
3. Notes of Transplantation and Replantation of Teeth. (*Dental Cosmos*, July, 1877; XIX. No. 7, and *Trans. of the New York Odontological Society*, Jan. 1877.)
4. Cause and Treatment of Discoloration in Teeth. (*Dental and Oral Science Magazine*, May, 1878; I. No. 2.)

John Nelson Borland.

Instructor in Clinical Medicine, 1869-1875.

1. First Medical and Surgical Report of the Boston City Hospital. Edited by J. N. Borland and David W. Cheever. Boston, 1870. I. 80.
2. Two Cases of Fracture of the Sternum. (*Boston Med. and Surg. Journal*, April, 1875; XCII. 492.)

Henry Pickering Bowditch.

Assistant Professor of Physiology, 1871-1876. Professor of Physiology, 1876-.

1. Alcohol as a Nutritive Agent. (*Boston Med. and Surg. Journal*, June, 1872; LXXXVI. 413.)
2. Über die Eigenthümlichkeiten der Reizbarkeit welche die Muskelfasern des Herzens zeigen. (*Arbeiten a. d. phys. Anstalt zu Leipzig*, 6 Jahrgang, 139. Leipzig, 1872.)
3. Über die Interferenz des retardirenden und beschleunigenden Herznerven. (*Arbeiten a. d. phys. Anstalt zu Leipzig*, 7 Jahrgang, 259. Leipzig, 1873.)
4. The Lymph Spaces in Fasciæ with a new Method of Injection. (*Proceedings of the Am. Academy of Arts and Sciences*, Feb. 11, 1873; VIII. 508.)
5. The Influence of Anæsthetics on the Vaso Motor Centres. (With Mr. C. S. Minot.) (*Boston Med. and Surg. Journal*, May, 1874; XC. 493.)
6. A New Form of Inductive Apparatus. (*Proceedings of the Am. Academy of Arts and Sciences*, Oct. 12, 1875; XI. 181.)
7. Force of Ciliary Motion. (*Boston Med. and Surg. Journal*, Aug., 1876; XCV. 159.)
8. The Growth of Children. (*Eighth Ann. Report State Bd. of Health of Mass.* Boston, 1877, 275.)
9. Does the Apex of the Heart contract automatically? (*Journal of Physiology*, March, 1878; I. 104.)
10. A New Form of Plethysmograph. (*Proceedings of the Am. Acad. of Arts and Sciences*, May 14, 1879; XV. 22.)
11. The Effect of the Respiratory Movements on Pulmonary Circulation. (With Dr. George M. Garland.) (*Journal of Physiology*, Aug. 1879; II. 91.)
12. Physiological Apparatus in use at the Harvard Medical School. (*Journal of Physiology*, Sept. 1879; II. 202.)
13. The Growth of Children (a supplementary Investigation), with suggestions in regard to methods of Research. (*Tenth Ann. Report State Board of Health of Mass.* Boston, 1879, 33.)
14. The Collection of Data at Autopsies. (*Boston Med. and Surg. Journal*, Aug. 1880; CIII. 148.)
15. Reports on the Progress of Physiology. (*Boston Med. and Surg. Journal*, LXXXVIII-XCVIII. *passim*, Jan. and July of each year, from Jan. 1873 to July 1877 inclusive. Also May, 1878. Also Associate Editor of the *Journal of Physiology*, 1878-.

Francis Bowen.

Alford Professor of Natural Religion, Moral Philosophy and Civil Polity, 1853-.

1. American Political Economy. New York, 1870. 80
2. The Psychological Effects of Etherization. (*The Spectator* [London], Dec. 27, 1873; XLVI. 1652.)
3. Modern Philosophy from Descartes to Schopenhauer and Hartmann. New York, 1877. 80.

4. Minority Report on the Silver Question, April, 1877. (*Report of Silver Commission*, I. 139. 44th Cong. 2d Sess.)
5. Dualism, Materialism, or Idealism? (*Princeton Review*, March, 1878.)
6. The Idea of Cause. (Id. May, 1879.)
7. Malthusianism, Darwinism, and Pessimism. (*North American Review*, Nov. 1879, CXXIX. 447.)
8. The Human and the Brute Mind. (*Princeton Review*, May, 1880.)
9. Gleanings from a Literary Life, 1838-1880. New York, 1880. 80.

Nos. 2, 4, 5, 6, 7, and 8 were reprinted in *Gleanings from a Literary Life*.

Charles Albert Brackett.

Instructor in Dental Therapeutics, 1874-.

1. Tribute to the Memory of Prof. T. B. Hitchcock: an extract from initial lecture on Dental Therapeutics, Oct. 7, 1874. (*In Memoriam. Thomas B. Hitchcock* [Boston, 1875?], 16.)
2. Report on Dental Therapeutics. Transmitted to Ann. Meeting at Philadelphia, Aug. 1876. (*Trans. of American Dental Association at its Sixteenth Annual Session*, 123.)
3. Good Judgment an Essential Qualification for the Dentist. Read before the American Academy of Dental Science at Annual Meeting in Boston, Sept. 25, 1876. (*Johnston's Dental Miscellany*, New York, Dec. 1876, 441.)
4. Is Irregular Dentition Hereditary? Transmitted to Ann. Meeting of the Society at Springfield, Mass. Oct. 18, 1876. (*Records of the Connecticut Valley Dental Society* from Oct. 1876 to June, 1879, inclusive; 29.)
5. Report on Dental Therapeutics. Transmitted to Annual Meeting at Chicago, Ill., Aug. 1877. (*Trans. of the Am. Dental Assoc. at its Seventeenth Ann. Session*, 143.)
6. Remarks on Induction to the Presidency of the Connecticut Valley Dental Society, at Ann. Meeting at Springfield, Mass., Oct. 22, 1878. (*Records of the Connecticut Valley Dental Soc.* from Oct. 1876, to June, 1879, inclusive; 155. Also in *Johnston's Dental Miscellany*, New York, Dec. 1878, 453.)
7. Relations of the Profession and the Public. Read before the Conn. Valley Dental Soc. at Ann. Meeting at Springfield, Mass., Oct. 22, 1878; and before the Rhode Island Dental Soc. at Regular Meeting in Newport, Feb. 4, 1879. (*Records of the Conn. Valley Dental Soc.* from Oct. 1876 to June, 1879, inclusive; 166. Also in *Johnston's Dental Miscellany*, New York, Feb. 1879, 41; reprinted in *Dental Register*, Cincinnati, O., Sept. 1880, 381.)
8. Supplementary Report on Dental Therapeutics: Certain Therapeutic Agents. Read at Ann. Meeting of Am. Dental Assoc. in Boston, Aug. 1880. (*Trans. of Am. Dental Assoc. at Twentieth Ann. Session*, 32.)
9. Improving the Condition of the Cemeteries in Peterboro'. Letter to the *Peterboro' (N. H.) Transcript*, Sept. 23, 1880.

William Henry Brewer.

University Lecturer on the Botany of the Pacific States,
1871-1872.

1. Polypetalæ [of California]. By W. H. Brewer and S. Watson. (*Geol. Survey of California*, Botany. I. Cambridge, 1876. 1. 80.)

George Russell Briggs.

Tutor in Mathematics, 1875- .

•• See the University Publications.

Howard Nicholson Brown.

Instructor in Homiletics, 1876-1877.

Various sermons in periodical and pamphlet form.

Edward Burgess.

Instructor in Entomology, 1879- .

1. Recent studies in Insect Anatomy. [Presidential Address before the Cambridge Entomological Club.] (*Psyche*, March, 1880; III. 27.)
2. The Structure and Action of a Butterfly's Trunk. (*American Naturalist*, May, 1880; XIV. 313.)
3. Contributions to the Anatomy of the Milk-Weed Butterfly, *Danaus Archippus*. (*Anniversary Memoirs of Boston Society of Nat. Hist.*, Boston, 1880; printed separately, Boston, 1880; 16, 2 plates. 40.)

William Elwood Byerly.

Assistant Professor of Mathematics, 1876- .

1. Elements of the Differential Calculus, with Examples and Applications. Boston, 1880. 80.

Arthur Tracy Cabot.

Instructor in Oral Pathology and Surgery, 1878- .

1. Experiments upon the Strength of Antiseptics. (*Boston Med. and Surg. Journal*, Nov. 1879; CI. 755.)
2. Case of Postpharyngeal Tumor. (*Archives of Laryngology*, N. Y., I. No. 1.)
3. Surgical Diagnosis of Tumors, by Prof. A. Lücke. Translated by Dr. Cabot. Boston. [1880.]
4. The Antiseptic Treatment of Empyema. (*Trans. of Mass. Med. Soc.*, June, 1880. Also *N. Y. Med. Journal*, Aug. 1880.)

Lucien Carr.

Assistant Curator of the Peabody Museum, 1877- .

1. On the Prehistoric Remains of Kentucky. By Lucien Carr and N. S. Shaler. (*Memoirs of the Geological Survey of Kentucky*, I. Pt. 4. Cambridge, 1876. 80.)

2. Observations on Crania from California. (*Report upon United States Geographical Surveys West of the One Hundredth Meridian*, VII. Archaeology. Washington, 1879. 40.)

•• See also the Reports of the Peabody Museum.

James Read Chadwick.

Lecturer on the Diseases of Women, 1873-1876.

1. Neugebauer's Specula. (*Boston Medical and Surgical Journal*, Feb. 1874; XC. 137.)
2. Report on Obstetrics and Diseases of Women. (Id. Feb. 1874; XC. 184 and 211.)
3. Transfusion. Read at the Ann. Meeting of the Mass. Med. Soc. in 1874. (Id. July 1874; XCI. 25.)
4. Temperance in Massachusetts. (Id. Aug. 1874; XCI. 194.)
5. A Case of Immediate Transfusion. (Id. Jan. 1875; XCII. 33.)
6. [Cases of] Ovariectomy. (Id. April 1875; XCII. 397.)
7. Extirpation of the Uterus by Abdominal Section. (Id. Nov. 1875; XCIII. 522.)
8. Cases of Ecchinococci in the Female Pelvis. (*Am. Journal of Obstetrics*. New York, 1875.)
9. The Climate and Diseases of America [during the Revolution]. By Dr. Johann David Schoepff. Translated by J. R. Chadwick. Boston, 1875. 80. pp. 31.
10. Injection of Fluid through the Abdominal Walls into the Large Intestine by means of the Trocar. (*Am. Journal of Obstetrics*, 1875.)
11. The Pathology and Treatment of Childbed. By Dr. F. Winckel. Translated from the German by J. R. Chadwick. Phila. 1876. 80. 484 pp.
12. The Medical Libraries of Boston. [1st Ann. Report of the Librarian of the Boston Medical Library Association.] Cambridge, 1876, pp. 11. 40.
13. Clinical Lecture on the Diagnostic Value of Abdominal Palpitation in Pregnancy. (*American Practitioner*. Indianapolis.)
14. Transactions of the American Gynecological Society. I. Edited by the Secretary, J. R. Chadwick. Boston, 1877. 80.
15. Labor Complicated with Uterine Fibroids and Placenta Previa. (*Trans. Am. Gynecological Society*, I; also printed separately, pp. 13.)
16. Rare Forms of Umbilical Hernia in the Fetus. (Id.; also printed separately, pp. 19.)

Thomas Henderson Chandler.

Adjunct Professor of Mechanical Dentistry, 1869-1871.
Professor of Mechanical Dentistry, 1871- .

1. Dental Caries and its Causes. An Investigation into the Influence of Fungi in the Destruction of the Teeth. By Drs. Leber and Rottenstein. Translated by Dr. Chandler. Phila. 1873.
2. "Under which king, Bezonian?" (*Johnstons' Dental Miscellany*, 1876.)
3. Discoloration of Gold Fillings. (Id. 1878.)
4. The Poisons of the Intelligence. Translated from the *Revue des Deux Mondes*. (Id. 1878.)

5. Original Caries. (Id. 1878.)
6. Magitot on Dental Caries. Translated by Dr. Chandler. Boston, 1878.
7. Dental Education. (*Johnston's Dental Miscellany*, 1878.)
8. Recent Progress in Dentistry. (*Boston Med. and Surg. Journal*, June, 1878; XCVIII. 728.)
9. Thumb-sucking in Childhood as a Cause of Subsequent Irregularity of the Teeth. (Id. Aug. 1878; XCIX. 204.)

David Williams Cheever.

Assistant Professor of Clinical Surgery, 1868-1875.
Professor of Clinical Surgery, 1875-.

1. First Medical and Surgical Report of the Boston City Hospital. Edited by J. N. Borland and D. W. Cheever. [Dr. Cheever was author of the Surgical portion.] Boston, 1870. 1. 8°.
 2. How to Study Medicine; An Introductory Lecture, 1871. (*Boston Med. and Surg. Journal*, Oct. 1871; LXXXV. 209.)
 3. Spontaneous Fracture. Boston, 1871. pp. 8.
 4. Three Cases of Ovariectomy, of which two were successful. (*Boston Med. and Surg. Journal*, May, 1873; LXXXVIII. 537; also printed separately, Boston, 1873. pp. 8.)
 5. Medical and Surgical Reports of the Boston City Hospital. 2d Series. Boston, 1877. 80.
- Dr. Cheever wrote the following: Unusual Operations on the Genital Organs, 39. On Excision of the Elbow-Joint, 143. Surgical Abstract, 215.
6. Removal of Tumors of the Tonsil by External Incision. (*Boston Med. and Surg. Journal*, Aug. 1878; XCIX. 133.)
 7. Sixteen Clinical Lectures at the Boston City Hospital, 1878-9. Reported in *Boston Med. and Surg. Journal*, XCVIII. 33, 127, 223, 387, 587, 791. XCIX. 229, 325, 517, 645. C. 313, 381, 593, 737. CI. 1, 291.
 8. Deep Abscess of the Neck.
 9. Reasons for *Displacing* the Jaw in removing Naso-Pharyngeal Polypi.

Edward Hammond Clarke.

Professor of Materia Medica, 1855-1872.

1. The Physiological and Therapeutical Action of the Bromide of Potassium and Bromide of Ammonium. In Two Parts. By E. H. Clarke, M.D., and Robert Amory, M.D. Boston, 1872.
2. A new Rule for Doses. (*Boston Med. and Surg. Journal*, Sept. 1872; LXXXVII. 209.)

James Freeman Clarke.

Professor of Natural Religion and Christian Doctrine, 1867-1871. Lecturer on Ethnic Religions, 1876-1877.

1. Steps of Belief. Boston, 1870.
2. Ten Great Religions. An Essay in Comparative Theology. Boston, 1871.
3. Go Up Higher. Boston, 1877.

John Thomas Codman.

Instructor in Operative Dentistry, 1879-.

1. On the Preservation of all the Natural Teeth. (*Odontographic Journal*, Oct. 1880. Rochester, N. Y.)

Josiah Parsons Cooke.

Erving Professor of Chemistry and Mineralogy, 1850-.

1. First Principles of Chemical Philosophy. 2d ed. 1870. Several since.
2. The New Chemistry. 1st ed. 1873. Several since.
3. The Nobility of Knowledge. An Address delivered before the Free Institute at Worcester, July 28, 1874. (*Popular Science Monthly*, Sept. 1874; V. 610; printed separately, New York, 1874.)
4. Scientific Culture. [An Address delivered July 7, 1875, at the opening of the Summer Courses of Instruction in Chemistry at Harvard University.] (*Popular Science Monthly*, Sept. 1875; VII. 511; also in book form, London, 1876.)
5. "Gas." (*Johnson's New Universal Cyclopædia*, New York, 1875.)
6. "Molecules." (*American Cyclopædia*, New York, 1875.)
7. The Radiometer: A Fresh Evidence of a Molecular Universe. (*Popular Science Monthly*, May, 1878; XIII. 1.)
8. Absolute System of Electrical Measurements. Collected papers on this subject from *Journal of Franklin Institute* [1871].
9. Religion and Chemistry. Newly Revised Edition. 1880.
10. Articles in *Proceedings of American Academy of Arts and Sciences*, of which Mr. Cooke was Editor from 1877:—
 - (1.) The Vermiculites; their Crystallographic and Chemical Relations to the Micæ. Dec. 9, 1873; IX. 35.
 - (2.) Melanosiderite: a New Mineral species, from Mineral Hill, Delaware Co., Pa. May 11, 1875; X. 451.
 - (3.) On Two New Varieties of Vermiculites with a Revision of the other Members of this Group. In Connection with F. A. Gooch. May 11, 1875; X. 453.
 - (4.) On a New Mode of Manipulating Hydric Sulphide. May 30, 1876.
 - (5.) On the Process of Reverse Filtering and its Application to Large Masses of Material. May 30, 1876.
 - (6.) Revision of the Atomic Weight of Antimony. [June 12, 1877;] XIII. 1.
 - (7.) Re-examination of some of the Haloid Compounds of Antimony. [June 12, 1877;] XIII. 72.
 - (8.) The Atomic Weight of Antimony, Preliminary Notice of Additional Experiments. March 10, 1880; XV. 251.
11. Articles in the *American Journal of Science and Arts*, of which Mr. Cooke was Associate Editor from July, 1877:—

- (1.) Memoir of Thomas Graham. March, 1871.
- (2.) The Radiometer. Sept. 1877; CXIV. 231.
- (3.) Chemical Philosophy. March, 1878; CXV. 211.
- (4.) Boiling Point of Iodide of Antimony [and a Modification of the Air Thermometer]. May, 1878; CXV. 391.
- (5.) Notice of Berthelot's Thermo-Chemistry. April, 1880; CXIX. 261.
- (6.) Argento-antimonious Tartrate (Silver Emetic). [Contributions from the Chemical Laboratory of H. C.] May, 1880; CXIX. 393.
- (7.) The Oxidation of Hydrochloric Acid Solutions of Antimony in the Atmosphere. [Contributions from the Chemical Laboratory of H. C.] June, 1880; CXIX. 464.
- (8.) Numerous short notices.

Benjamin Robbins Curtis.

Lecturer in the Law School, 1872-1873.

1. Jurisdiction, Practice and Peculiar Jurisprudence of the Courts of the United States. [Lectures delivered at the Harvard Law School in 1872-73.] Edited by George T. and Benjamin R. Curtis. Boston, 1880.

Elbridge Gerry Cutler.

Assistant in Pathological Anatomy, 1878- .

1. Action of Phosphorus, Alkalies, and of Quinia on the Globular Richness of the Blood. By E. G. Cutler and E. H. Bradford. (*Am. Journal of Med. Sciences*, Oct. 1878.)
2. A Case of Lumbar Colotomy performed for the relief of temporary obstruction of the Bowels caused by Pelvic Peritonitis. By E. G. Cutler and J. Homans. (*Boston Med. and Surgical Journal*, Oct. 1878; XCIX. 429.)
3. Changes of the Globular Richness of Human Blood. By E. G. Cutler and E. H. Bradford. (*Journal of Physiology*, London, Jan. 1879; I. 427.)
4. A Guide to the Qualitative and Quantitative Analysis of Urine. By Dr. C. Neubauer and Dr. J. Vogel. Translated and edited by E. G. Cutler. Revised by Prof. E. S. Wood. New York. 1879. pp. 550.
5. The Anatomical Changes caused by Septicæmia and Pyæmia. (*Boston Med. and Surg. Journal*, July, 1879; CI. 145.)
6. Pathological Changes in Septicæmia and Pyæmia. (Id. March, 1880; CII. 302.)

Dr. Cutler has been the preparer of the Reports on the "Progress in Pathology and Pathological Anatomy," which have appeared in the *Boston Med. and Surg. Journal* in May, 1880; CII. 463, 485. He was also Secretary of the Boston Society for Medical Improvement in 1878 and 1879, and edited the Proceedings printed in the *Boston Med. and Surg. Journal*, XCIX. 498; C. 512.

William Morris Davis.

Instructor in Geology, 1878- .

1. Notice of Dr. B. A. Gould's "Uranometria Argentina." (*Harvard Register*, June, 1880; I. 122.)

Francis Winthrop Dean.

Tutor in Surveying and Drawing, 1874- .

1. The Dumpy Level. (*Engineering*, London, Jan. 1879; XXVII.)
2. The Circular Valves of the Mogul Locomotive of the Great Eastern Railway of England. (*Rail-road Gazette*, New York, March, 1880; XII.)

George Derby.

Professor of Hygiene, 1870-1874.

1. Report of Secretary. (*1st Ann. Rep. of State Bd. of Health of Mass.* Boston, 1870; 7.)
2. Slaughtering for Boston Market. (Id. 20.)
3. Prevention of Disease. (Id. 42.)
4. Poisoning by Lead Pipes used for the Conveyance of Drinking Water. (*2d Ann. Rep.* Boston, 1871, 22.)
5. Trichina Disease in Massachusetts. (Id. 46.)
6. Health of Towns. (Id. 52.)
7. Causes of Typhoid Fever in Massachusetts. (Id. 110.)
8. Examination of the Water of Mystic Pond and of its Sources of Supply. (Id. 386.)
9. Mill-dams and other Water Obstructions. (*3d Ann. Rep.* Boston, 1872, 60.)
10. Slaughtering, Bone-boiling and Fat-melting. (Id. 224.)
11. Small-pox in Massachusetts. (Id. 298.)
12. Sewerage; Sewage; Pollution of Streams; The Water Supply of Towns. (*4th Ann. Rep.* Boston, 1873, 20.)
13. The Food of the People of Massachusetts. (Id. 237.)
14. Hospitals. (*5th Ann. Rep.* Boston, 1874, 315.)

Hasket Derby.

Lecturer on Ophthalmology, 1870-1871.

1. A Case of Melano-Sarcoma of Choroid, simulating Glaucoma. (*Boston Med. and Surg. Journal*, March, 1871; LXXXIV. 157.)
2. On the Importance of the Ophthalmoscope as an Aid to General Practice. (Id. March, 1871; LXXXIV. 205.)
3. A Lecture on the Prognosis of Cataract, and the Rules by which it is formed. (Id. April, 1871; LXXXIV. 221.)
4. The Modern Operation for Cataract. (Id. June, 1871; LXXXIV. 357.)
5. An Analysis of Sixty-one Cases of Extraction of Cataract by the Method of Graefe. (Id. June, 1871; LXXXIV. 379.)

Frank Winthrop Draper.

Lecturer on Hygiene, 1875-1878; Lecturer on Forensic Medicine, 1878-.

1. Assistant Editor of the *Boston Med. and Surg. Journal*, 1872-6.
2. Reports on Recent Progress in Hygiene and Forensic Medicine. (*Boston Med. and Surg. Journal*, XCI. XCIII. XCV. XCVI. XCVIII. XCIX. C. and CII.)
3. Report on the Registry and Return of Births, Marriages and Deaths [in Massachusetts for the Years 1874, 1875, 1876, and 1877]. 4 vols. Boston.
4. Report on the Registration of Prevalent Diseases. (*Seventh Ann. Report of Mass. State Board of Health*, 475. Boston. 1876.)
5. Medical and Surgical Reports of Boston City Hospital. Second Series. Edited by D. W. Cheever and F. W. Draper. Boston, 1877.
6. Mortality Statistics [of the City of Boston] for 1876. (*Fifth Ann. Rep. of Board of Health of Boston*, 28. Boston, 1877.)
7. The Afflicted Classes [in Massachusetts: an Analysis of the Census of 1875]. (*Eighth Ann. Rep. of the Mass. Bureau of Statistics of Labor*, 157. Boston, 1877.)
8. On the Work and Duties of the Medical Examiner. (*Trans. of the Mass. Medico-Legal Soc.* I. 35. 1878.)
9. The Post-mortem Diagnosis of Certain Forms of Asphyxia. (*Boston Med. and Surg. Journal*, April, 1879; C. 561.)

Charles Franklin Dunbar.

Professor of Political Economy, 1871-.

1. The International. (*Old and New*, March, 1872; V. 311.)
2. Cairnes's Principles of Political Economy. (*North American Review*, Jan. 1875; CXX. 214.)
3. Economic Science in America, 1776-1876. (Id. Jan. 1876; CXXII. 124.)
4. The Harvard Examinations for Women. (*Penn Monthly*, April, 1878; IX. 284.)

. See also the Bulletin of the Library.

Thomas Dwight.

Instructor in Comparative Anatomy, 1872-1873; Instructor in Histology, 1874-.

1. Description of the Whale (*Balaenoptera musculus*) [With Remarks on the Classification of Fin Whales]. (*Proceedings of Boston Society of Nat. Hist.*, Feb. 1872; XV. 26. Also printed separately.)
2. Semi-annual Reports on the Progress of Anatomy in *Boston Med. and Surg. Journal* since Sept. 1872. Some reports are printed separately.
3. Associate editorship with J. C. Warren of the *Boston Med. and Surg. Journal*, from Jan. 1873 to Jan. 1878; LXXXVIII.-XCVIII.

4. The Action of the Intercostal Muscles. (*Boston Med. and Surg. Journal*, May, 1873; LXXXVIII. 435. Also printed separately.)
5. A Contribution to the Anatomy of the Jugular Foramen. (*Am. Journal of the Medical Sciences*, Oct. 1873.)
6. The Structure and Action of Striated Muscular Fibre. (*Proceedings of Boston Soc. of Nat. Hist.* Nov. 1873; XVI. 119. Also printed separately.)
7. An Abnormal Ischio-Trochanteric Ligament. (*Journal of Anatomy and Physiology* [England], Nov. 1873; VIII. 134.)
8. Remarks on the Position of the Femur, and on its so-called "True Neck." (*Journal of Anat. and Physiol.* [England], May, 1875; IX. 311.)
9. A Rare Form of Monstrosity. Two Cases of apparently true Hermaphroditism. [Written with Dr. W. L. Richardson.] (*Boston Med. and Surg. Journal*, Sept. 1875; XCIII. 377; also printed separately, Cambridge, 1875, pp. 10.)
10. The Anatomy of the Head. Boston, 1876.
11. Remarks on the Brain. Illustrated by the Description of the Brain of a Distinguished Man [Chauncey Wright]. (Read Dec. 12, 1877.) (*Proceedings of the Am. Acad. of Arts and Sciences*, XIII. 210. Also printed separately.)
12. The Identification of the Human Skeleton. A Medico-Legal Study. To which was awarded the Prize of the Mass. Med. Soc. for 1878. (*Medical Communications of the Mass. Med. Soc.*, Boston, 1878; XII. 165. Also printed separately.)
13. The Church and Medicine. (*Catholic World*, May, 1879; XXIX. 192.)
14. Skulls, Brains and Souls. (*International Review*, May, 1880; VIII. 493.)

Robert Thaxter Edes.

Assistant Professor of Materia Medica, 1870-1875; Professor of Materia Medica, 1875-.

1. Practical Medicine as a Science: Annual Address to Norfolk District Medical Society. (*Boston Med. and Surg. Journal*, May, 1871; LXXXIV. 289.)
2. Cases of Leucocythæmia. (Id. July, 1871; LXXXV. 49.)
3. Elimination of Alcohol by the Kidneys and Breath. (Id. May, 1872; LXXXVI. 347.)
4. Reports on Therapeutics. (Id. LXXXVII.-XCII. 1872-75.)
5. Tumor affecting Nerves of Seventh Pair and Cerebellum upon Left Side. (Id. Jan. 1873; LXXXVIII. 97.)
6. Ecker's Cerebral Convolutions of Man. Translated by Dr. Edes. New York, 1873.
7. Pepsin. (*Boston Med. and Surg. J.*, Jan. 1874; XC. 3.)
8. Clinical Notes of Cases of Rheumatism. (Id. Feb. 1875; XCII. 191.)
9. Syphilitic Intracranial Disease. [With Dr. Chas. E. Stedman.] (*Am. Journal of Med. Sciences*, April, 1875.)
10. The Treatment of Typhoid Fever by Cold Baths. (*Boston Med. and Surg. J.*, July, 1875; XCIII. 89, and in *The Med. and Surgical Reports of the Boston City Hospital*, 205. 2d Series.)

11. Articles on Materia Medica (in conjunction with Dr. E. H. Clarke) in *Appleton's Am. Encyclopaedia*. New York, 1873-76.
12. Clinical Lecture on a Case of Facial Paralysis. (*Boston Med. and Surg. J.*, June, 1876; XCIV. 619.)
13. Medical Cases in Boston City Hospital. (Id. Aug. 1876; XCV. 207.)
14. On Certain Diseases of the Nervous Centres. (*Med. and Surg. Reports of Boston City Hospital*, 2d Series. 46. Boston, 1877.)
15. Microscopic Sections of Rabbit's Kidney, showing the action of the secreting Epithelium. (*Boston Med. and Surg. J.*, April, 1878; XCVIII. 474.)
16. What is the object of the Mass. Med. Soc. and how may it best be fulfilled? (Id. June, 1878; XCVIII. 724.)
17. Case of General Cancer including the Suprarenal Capsules, with Symptoms of Addison's Disease. (Id. Dec. 1878; XCIX. 788.)
18. Case of Anterior Spinal Paralysis. (Id. July, 1879; CI. 105.)
19. Fatal Puerperal Disease of Doubtful Character and Origin. (Id. Oct. 1879; CI. 626.)
20. Sarcoma of Lumbar Vertebrae. (Id. Nov. 1879; CI. 661.)
21. Cheyne-Stokes Respiration. (Id. Nov. 1879; CI. 734.)
22. Relation of Drug Manufacturers to Progress of Therapeutics. (Id. Jan. 1880; CII. 49.)
23. Abscess of Brain. (Id. May, 1880; CII. 447.)
24. Some of the Symptoms of Bright's Disease. Clinical Lectures. (Id. June, 1880; CII. 601; July, 1880; CIII. 1, 25.)
25. Mosler on Diseases of the Spleen. Translated by Dr. Edes. (*Ziemssen's Cyclopaedia*, VIII.)
26. Heubner on Syphilis of Nervous System. Translated by Dr. Edes. (Id. XII.)
27. Various Reviews in *Boston Med. and Surg. Journal* and *Am. Journal of Medical Sciences*.

Charles William Eliot.

President of Harvard College, 1869- .

1. "A National University": a report made to the National Education Association at Elmira, Aug. 5, 1873. (*Proceedings of National Ed. Assoc.* Also printed separately, Cambridge, 1874, pp. 23.)
2. The Exemption from Taxation of Church Property, and the Property of Educational, Literary, and Charitable Institutions. [Dec. 12, 1874.] (*Rep. Mass. Commissioners to Revise Laws on Taxation and Exemption therefrom*. Appendix. 367. Boston, 1875. 80; and printed separately [Boston, 1875], pp. 28.)
3. Congratulatory Address. (*Addresses at the Inauguration of Daniel C. Gilman as President of the Johns Hopkins University*, Feb. 22, 1876. 5. Baltimore, 1876.)
4. English and American Universities Compared. (*North American Rev.* March-April, 1878; CXXVI. 217.)
5. Address before the American Academy of Dental Science at 11th Ann. Meeting, Oct. 1878. Cambridge, 1879, pp. 30.

6. Address at the Semi-Centennial Anniversary of the Boston Society of Natural History. (*Anniversary Memoirs of the Boston Soc. of Nat. Hist.*, Boston, 1880.)

♦♦ See also the University Publications.

Calvin Ellis.

Jackson Professor of Clinical Medicine, 1867- .

1. The Tendency of so-called Local Diseases to Generalization. (*Boston Med. and Surg. Journal*, Oct. 1870; LXXXIII. 229.)
2. Vomiting as the sole prominent sign of Disease of the Kidneys. (Id. June, 1871; LXXXIV. 425.)
3. Autopsy of the Double Monster (*Ischiopagus Tripus*), born in Ohio and lately exhibited in Boston. (Id. Oct. 1871; LXXXV. 218.)
4. The Curved Line of Dulness in cases of Pleuritic Effusion. (Id. Jan. 1874; XC. 12; Feb. 1874; XC. 173.)
5. A Case of Echinococcus Cyst. (Id. May, 1874; XC. 553.)
6. Ovarian Cysts. (Id. Aug. 1874; XCI. 182, and Oct. 1874; XCI. 396.)
7. Capillary Bronchitis of Adults. A Series of American Clinical Lectures. New York, 1876.
8. General Softening of the Brain seldom seen as a Pathological Condition, never as a Clinical Disease. (*Boston Med. and Surg. Jour.*, Jan. 1876; XCIV. 29.)
9. The Curved Line of Pleuritic Effusion. (Id. Dec. 1876; XCV. 689.)
10. Constant Irrigation in Chronic Cystitis. (Id. April, 1877; XCVI. 393.)
11. The Point of Origin of so-called Bronchial Respiration. (Id. July, 1877; XCVII. 1.)
12. Ulcerative Endocarditis; Embolism of the Arteries of the Left Leg. (Id. Nov. 1877; XCVII. 549.)
13. Osteomalacia in a Man. (Id. Jan. 1878; XCVIII. 5.)
14. Chest Expansion in Pleurisy. (Id. Feb. 1879; C. 196.)
15. Chronic Bronchitis with Dilatation of the Bronchi. (Id. July, 1879; CI. 162.)
16. Probable Acute Nephritis. (Id. Nov. 1879; CI. 696.)
17. A Large Effusion of Blood into the Left Hemisphere and Lateral Ventricle; immediate and continued unconsciousness without localized paralysis; continued and marked rise of temperature. (Id. Dec. 1879; CI. 876.)
18. The Significance of Albuminuria as a Symptom. (Id. April, 1880; CII. 361, 388, 414.)

Ephraim Emerton.

Instructor in History, 1876- .

1. Sir William Temple und die Tripleallianz vom Jahre 1668. Berlin, 1877. 80. pp. 93.

♦♦ See also the Bulletin of the Library.

Henry Lawrence Eustis.*Professor of Engineering, 1849-.*

Professor Eustis has written the following book-notices:—

1. Strength and Determination of the Dimensions of Structures of Iron and Steel. By Dr. Ph. J. J. Weyrauch. (*American Architect and Building News*, 1877; II. 142.)
2. The Cambridge Boiler Explosion. An Examination of the Attack in the columns of the Boston Daily Advertiser upon the Judicial Decision. By I. R. Robinson. (Id. 1878; IV. 162.)
3. Government Tests of Wrought-Iron and Chain-cables. Experiments on the Strength of Wrought-Iron and Chain-cables. Report by Commander L. A. Beardslee, U. S. N. Revised and abridged by William Kent, M. E. (Id. 1880; VII. 183.)
4. Trusses and Arches analyzed and discussed by Graphical Methods. By Charles E. Greene, Prof. of Civil Engineering, University of Michigan. (*Harvard Register*, March, 1880; I. 68.)

. Professor Eustis printed in 1878, in the *New Eng. Hist. and Genealogical Register*, a Genealogy of the Eustis family, which was afterwards issued in pamphlet form.

Charles Carroll Everett.*Bussey Professor of Theology, 1869-.*

1. Immortality. (*Old and New*, Sept. 1871; IV. 313.)
2. The Epistle to the Hebrews. (*Monthly Religious Magazine*, Dec. 1871; XLVI. 485.)
3. "Joint Heirs with Christ." A Christmas Sermon preached in the First Parish Church in Cambridge, Dec. 24, 1871. Cambridge, 1872, pp. 18.
4. The Relation of Jesus to the Present Age. (In *Christianity and Modern Thought*. [Published by Am. Unitarian Assoc.] Boston, 1872. 129.)
5. "The City that hath Foundations." A Sermon preached before the National Conference of Unitarian and other Christian Churches in Boston, 1872. (*Proceedings of the Conference*.)
6. A Sermon for Winter. (*Monthly Religious Magazine*, Jan. 1874; LI. 19.)
7. Mysticism. (*Unitarian Review*, March, 1874; I. 5.)
8. The Gain of History. An Oration given before the Phi Beta Kappa Fraternity of Harvard College. (Id. Aug. 1874; II. 16.)
9. The Tragic Element in Literature and Life. (Id. Jan. 1875; III. 1.)
10. The Known and the Unknowable in Religion. (Id. May, 1875; III. 445.)
11. The Scottish Philosophy. (Id. July, 1875; IV. 24.)
12. The Cosmic Philosophy. (Id. May, 1876; V. 482.)
13. The New Ethics. An Essay read before the National Conference of Unitarian and other Christian Churches at Saratoga, 1878. (*Proceedings of the Conference*. Also in *Unitarian Review*, Oct. 1878; X. 408.)

14. "Leonard Woods." A Discourse before Bowdoin College and the Maine Historical Society, July 9, 1879. (*Proceedings of Maine Hist. Soc.* Also printed separately as a pamphlet.)
15. The Relation of Philosophy and Modern Liberalism. Read before the Ministers' Institute held at Providence, R. I. (*Institute Essays*, Boston, 1880. Also in *Unitarian Review*, Dec. 1879; XII. 602.)
16. The Data of Ethics. (*Unitarian Review*, Jan. 1880; XIII. 43.)

William Gilson Farlow.

Assistant in Botany, 1870-1872; Assistant Professor of Botany, 1874-1879; Professor of Cryptogamic Botany, 1879-.

1. Cuban Seaweeds. (*Am. Naturalist*, June, 1871; V. 201.)
2. List of the Seaweeds or Marine Algæ of the South Coast of New England. (*Report of U. S. Commission of Fish and Fisheries for 1871-2*, 281. Washington, 1873.)
3. An Asexual Growth from the Prothallus of *Pteris serrulata* [P. critica]. (*Proc. Am. Acad. of Arts and Sciences* [Jan. 1874], IX. 68; and *Quarterly Journal of Microscopical Science*, New Series, XIV.)
4. Notes from the Journal of a Botanist in Europe. (*Am. Naturalist*, Jan. Feb. and May, 1874; VIII. 1, 112, 295.)
5. Ueber ungeschlechtliche Keimpflanzen an Farnprothallien. (*Botanische Zeitung*, 1874.)
6. List of the Marine Algæ of the United States, with Notes of New and Imperfectly Known Species. (*Proc. Am. Acad. of Arts and Sciences* [March 9, 1875]; X. 351.)
7. Algæ [of Kerguelen Island]. (*Bulletin U. S. National Museum*, No. 3, Contributions to Nat. Hist. of Kerguelen Island; 30. Washington, 1876.)
8. Gustave Thuret. (*London Journal of Botany*, Jan. 1876.)
9. University Instruction in Botany. (*Am. Naturalist*, May, 1876; X. 287.)
10. List of the Marine Algæ of the United States. (*Report U. S. Fish. Comm. for 1875-76*.)
11. Articles on Botany in *Johnson's Cyclopædia*; and Record of Botany in *Annual Record of Science and Industry*, 1875-8.
12. Report on a Peculiar Condition of the Water supplied to the City of Boston. (With W. R. Nichols and E. Burgess.) Boston, 1876. (Also in *Report of Cochituate Water Board*, Boston, 1876.)
13. On some Algæ New to the United States. (*Proc. Am. Acad. of Arts and Sciences*. [May 9, 1877].)
14. Onion Smut. (24th Ann. Report of Secretary of Mass. Board of Agriculture for 1876. Part 2, 164. Boston, 1877.)
15. Diseases of Fruit-bearing Trees. (25th Ann. Report of Sec. of Mass. Bd. of Agriculture for 1877, 218, 231. Boston, 1878.)
16. The Seaweeds of Salt Lake. (*Am. Nat.*, Nov. 1879; XIII. 701.)
17. On the Nature of the Peculiar Reddening of Salted Codfish during the Summer Season. (*Rep. U. S. Fish Comm.* 1880.)

- (b) Pollution of Streams; Disposal of Sewage; Drainage and Health. (*Eighth Ann. Rep.* 21, 80, 113.)
- (c) Registration of Deaths and of Diseases. (Id. 12, 231.)
- (d) Disease of the Mind. (Id. 13, 325.)
- (e) Drainage and Health; Sewerage; Pollution of Streams. (*Ninth Ann. Rep.* 3.)
- (f) Diphtheria in Gloucester. (Id. 463.)
- 3. The Present Aspect of the Sewage Question as applied to Boston: a paper read before the American Statistical Association, Boston, April 20, 1877. Boston, 1877.
- 4. Disease of the Mind. [Reprinted from Mass. State Bd. of Health Reports.] Boston, 1877.
- 5. Editorial and introductory portion (summary) of *Thirty-Seventh and Thirty-Eighth Ann. Reports of Registry and Return of Births, Marriages and Deaths in Mass.* [for 1878 and 1879].
- 6. [The Causes of] Typhoid Fever. (*Boston Med. and Surg. J.*, March, 1880; CII. 227.)
- 7. Cases of Insanity and of Fanaticism. [Pocasset Murder.] (Id. March, 1880; CII. 265.)
- 8. Editorial portion of Health Supplement of *First Ann. Rep. of Mass. State Bd. of Health, Lunacy and Charity*, for 1879. Boston, 1880. Also in this volume: The Pollution of Streams, Supplement. I.
- 9. Contributions to the *Boston Med. and Surg. Journal*, *Boston Daily Advertiser*, and other papers.

Henry Gannett.

Assistant in Observatory, 1870-1871.

- 1. Report on Astronomy and Hypsometry. (*Ann. Rep. U. S. Geol. Survey of Territories for 1872*, 793. Washington, 1873.)
- 2. Lists of Elevations principally West of the Mississippi River. 2d ed. Washington, 1873 [3d ed. 1875; 4th ed. (with a hypsometric map of the U. S.) 1877]. (*U. S. Geol. Survey of the Territories*. Miscell. Pub. No. 1.)
- 3. Meteorological Observations for 1872 in Utah, Idaho, and Montana. (Id. Misc. Pub. No. 2. Washington, 1873.)
- 4. Geographical Report. (*Ann. Rep. U. S. Geol. Survey of Terr. for 1873*, 670. Washington, 1874.)
- 5. Geographical Report. (Id. for 1874, 413. Washington, 1876.)
- 6. Topographical Report [for 1875 and 1876]. (*Ann. Rep. U. S. Geol. Survey of Terr. for 1875*, 335. Washington, 1877.)
- 7. Geographical Report. (Id. for 1877.)
- 8. The Atlas of Colorado [in which Mr. Gannett's topographical work, with that of his associates, is embodied]. 1877.

George Minot Garland.

Assistant in Physiology, 1877-.

- 1. Pneumono-Dynamics. New York, 1878. 80.
- 2. Pneumono-Dynamics. Lecture. (*Proc. of Med. Soc. of County of Kings*, June, 1878.)

- 3. Pharyngeal Respiration. (*Journal of Physiology*, May, 1879; II. 82.)
- 4. The Effect of the Respiratory Movements on the Pulmonary Circulation. (In connection with Prof. H. P. Bowditch.) (*Journal of Physiology*, Aug. 1879; II. 91.)
- 5. The Letter S. Curve. (*New York Medical Journal*, Nov. 1879.)
- 6. Negative Pressure. (*The Medical Record*, Dec. 1879.)

Samuel Garman.

Assistant in Herpetology, 1874-.

- 1. Description of a New Species of North American Serpent. (*Proc. Boston Soc. Nat. Hist.*, June, 1874; XVII. 92.)
- 2. On the Skates (Rajæ) of the Eastern Coast of the United States. (Id. Nov. 1874; XVII. 170.)
- 3. Notes on some Fishes and Reptiles from the Western Coast of South America. (Id. Dec. 1875; XVIII. 202.)
- 4. Reptiles and Batrachians collected by Allen Lesley, Esq., on the Isthmus of Panama. (Id. June, 1876; XVIII. 402.)
- 5. On a Variation in the Color of Animals. (*Proc. Am. Assoc. for the Advancement of Science*, Aug. 1876, 187.)
- 6. On the Pelvis and External Sexual Organs of Selachians, with especial reference to the New Genera *Potamotrygon* and *Disceus*. (*Proc. Boston Soc. Nat. Hist.*, May, 1877; XIX. 197.)
- 7. Pseudis, "The Paradoxical Frog." (*American Naturalist*, Oct. 1877; XI. 587.)

* * See also the Bulletin and Reports of the Museum of Comparative Zoölogy.

Wolcott Gibbs.

Rumford Professor and Lecturer on the Application of Science to the Useful Arts, 1863-.

- 1. Contributions to Chemistry from the Laboratory of the Lawrence Scientific School. No. 12. (*Am. Journal of Science and Arts*, Sept. 1870; L. 240.)
- 2. Analytical Notices. (Id. Feb. 1873; 3d Series, V. 110.)
- 3. Researches on the Hexatomic Compounds of Cobalt. Part I. (*Proc. Am. Academy of Arts and Sciences*, X. 1.)
- 4. Optical Notices. (Id. X. 401.)
- 5. Researches on the Hexatomic Compounds of Cobalt. Part II. (Id. XI. 1.)
- 6. Researches on the Complex Inorganic Acids. Part I. (Id. XV. 1.)
- 7. The Same. Part I. [Continued.] (Id. XVI. 109.)

* * See also the Bulletin of the Library.

Frank Austin Gooch.

Assistant in Chemical Laboratory, 1874-1875.

- 1. [In connection with Prof. J. P. Cooke.] On Two New Varieties of Vermiculites, with a Revision of the other Members of this Group. [May

- 11, 1875.] (*Proc. Am. Acad. of Arts and Sciences*, X. 453.)
2. Ueber Vulkanische Gesteine der Galapagos Inseln. (*Tschermak's Mineralogische Mittheilungen* for 1876. 133.)
3. Bemerkungen über die Pechsteine von Arran. (Id. for 1876. 185.)
4. On a New Method for the Separation and Subsequent Treatment of Precipitates in Chemical Analysis. [Feb. 13, 1878.] (*Proc. Am. Acad. of Arts and Sciences*, XIII. 342. Reprinted in *American Chemical Journal*, I. 317. Copied into *Chemical News*, XXXVII. 181; and into *New Remedies*, VII. 290.)
5. On the Estimation of Phosphoric Acid as Magnesian Pyrophosphate [Oct. 8, 1879]. (*Proc. Am. Acad. of Arts and Sciences*, XV. 53. Reprinted in *Am. Chemical Journal*, I. 391.)
6. A New Form of Absorption-Apparatus for Use in estimating Ammonia. (Id. I. 450.)

George Lincoln Goodale.

Assistant Professor of Vegetable Physiology, 1873-1878;
Professor of Botany, 1878-.

1. Hybrids and Hybridization in Plants. A Lecture. (*Twenty-fifth Ann. Rep. of Mass. Bd. of Agriculture* for 1877, 156. Boston, 1878.)
2. Recent Researches in regard to Seeds and their Germination. A Lecture. (*Ann. Rep. Mass. Board of Agriculture*.)*
3. "Vegetable Histology." (*Johnson's New Universal Cyclopaedia*. New York, 1878.)
4. "Vegetable Physiology." (Id.)
5. Concerning a few Common Plants. Boston, 1879.
6. Wild Flowers of North America. Plates by Isaac Sprague. 4°. [Now publishing.]

* See also the Bulletin of the Library.

William Watson Goodwin.

Eliot Professor of Greek Literature, 1860-.

1. An Elementary Greek Grammar. xx. 242. Boston, 1870.
2. Plutarch's Morals. Translated from the Greek by Several Hands [London, 1684-1694]. Revised by W. W. Goodwin; with introd. by R. W. Emerson. Boston, 1870. 5 vols.
3. Greek Reader, consisting of selections from Xenophon, Plato, Herodotus and Thucydides. Edited by W. W. Goodwin and J. H. Allen. Boston, 1871.
4. On the Aorist Subjunctive and Future Indicative with *ἔστω* and *ὅ μὴ*. (*Trans. Am. Philol. Assoc.* 1869-70. 46. Hartford, 1871.)
5. Syntax of the Moods and Tenses of the Greek Verb. Fifth ed. Revised and modified in parts. Boston, 1873. (Republished with special title by E. Johnson, Cambridge, England. Sixth and later editions have been republished by Macmillan & Co., London.)
6. On the Classification of Conditional Sentences in Greek Syntax. (*Trans. of Am. Philol. Assoc.*, 1873. Previously printed in *Journal of Philology*, V. 186. London and Cambridge, 1873.)

7. On "Shall" and "Should" in Protasis, and their Greek Equivalents. (*Trans. Am. Philol. Assoc.*, 1876. Reprinted in *Journal of Philology*, VIII. 18. London and Cambridge, 1879.)
8. Mycenæ. (*Nation*, No. 601 [Jan. 4, 1877]; XXIV. 6.)
9. Greek Reader. Second ed. [Same as No. 3, with Anabasis I. and II. substituted for Anabasis III. and IV.] Boston, 1877.
10. Selections from Xenophon and Herodotus. Edited by W. W. Goodwin and John W. White. [Same as last, with Anabasis III. and IV. substituted for extracts from Xenophon's Memorabilia, Plato, and Thucydides.] Boston, 1877.
11. Xenophon's Anabasis, Books I.-IV. Edited by W. W. Goodwin and J. W. White. [Same as the Anabasis in last work.] Boston, 1877.
12. On the Text and Interpretation of certain passages in the Agamemnon of Aeschylus. (*Trans. Amer. Philol. Assoc.*, 1877.)
13. Review of Schliemann's "Mycenæ." (*Nation*, Nos. 658 and 659 [Feb. 7 and 14, 1878]; XXVI. 8, 116.)
14. An Elementary Greek Grammar. Revised and enlarged edition. [Same as No. 1, rewritten and greatly enlarged.] xxviii. 393. London, 1879.
15. The Same. Boston, 1879.
16. On *δικαιὰ ἀπὸ συμβόλων*, and *δικαιὰ συμβόλων* of Thuc. I. 77. (*Am. Journal of Philology*, Feb. 1880; I. 4.)
17. Review of Stewart and Long's "Plutarch," Vol. I. (*Nation*, No. 805 [Dec. 2, 1880]; XXXI. 395.)
18. Review of Schliemann's "Ilios." (Id. Nos. 815 and 816 [Feb. 10 and 17, 1881]; XXXII. 96.)

Asa Gray.

Fisher Professor of Natural History, 1842-.

1. Botanical Contributions. June, 1870. (*Proc. American Academy of Arts and Sciences*, VIII. 243.)
 - i. Reconstruction of the Order Diapensiaceæ.
 - ii. Revision of the North American Polemoniaceæ.
 - iii. Miscellaneous Botanical Notes and Characters.
2. A New Species of Erythronium. (*Canadian Naturalist*, V. *American Naturalist*, July, 1871; V. 298.)
3. Botanical Contributions. Feb. 1872. (*Proc. Am. Acad. of Arts and Sciences*, VIII. 365.)
 - i. Notes on Labiataæ.
 - ii. Determinations of a Collection of Plants made in Oregon by Elihu Hall, during the summer of 1871, with Characters of some New Species and various Notes.
4. Address before the American Association for the Advancement of Science at Dubuque, Iowa, August, 1872. (*Proc. A. A. S. I.* Cambridge, 1873. Also, without the Appendix, *American Journal of Science and Arts*, 3d Ser. IV. 282. And [under the title, Sequoia and its History] in *American Naturalist*, VI. 577. And in part [under the title, The Origin of the Flora of Atlantic North America] in *Trimen's Journal of Botany*, X. 309.)

5. Botany for Young People, Part II. How Plants Behave. New York and Chicago, 1873. pp. 46. sm. 40.
6. John Torrey: A Biographical Notice. June, 1873. (*Am. Jour. of Science and Arts*, 3d Ser. V. 411. *Proc. Am. Acad. of Arts and Sciences*, IX. 262. Also printed separately.)
7. Botanical Contributions. May, 1873. (Id. VIII. 620.)
 - i. Characters of New Genera and Species of Plants.
 - ii. Notes on Compositæ, and Characters of certain Genera and Species, etc. [Part I.]
8. William B. Sullivan: A Biographical Notice. July, 1873. (*Am. Jour. of Science and Arts*, 3d Ser. VI. 1; *Proc. Am. Acad. of Arts and Sciences*, IX. 271.)
9. Botanical Contributions. May, 1874. [Part II. of No. 7, ii.] (Id. IX. 187.)
10. Charles Robert Darwin. June, 1874. (*Nature*, X. 79. *American Naturalist*, Aug. 1874; VIII. 473.)
11. Phanerogamia of the Pacific Coast of North America. By John Torrey. (Edited by Dr. Asa Gray.) July, 1874. (*United States Exploring Expedition, during the Years 1838-1842, under the Command of Charles Wilkes, U. S. N.* XVII. 205.)
12. Jeffries Wyman. Address at the Memorial Meeting of the Boston Society of Natural History. Oct. 7, 1874. (*Proc. Boston Soc. Nat. Hist.* XVII. 96. *Am. Jour. of Science and Arts*, 3d Ser. IX. 81, 171.)
13. Botanical Contributions. May and Oct. 1874. (*Proc. Am. Acad. of Arts and Sciences*, X. 39.)
 - i. A Synopsis of the North American Thistles.
 - ii. Notes on Borraginacæ.
 - iii. Synopsis of North American Species of Physalis.
 - iv. Characters of various New Species.
14. Do Varieties wear out, or tend to wear out? (*New York Semi-Weekly Tribune*, Dec. 8, 1874. *Am. Journ. of Science and Arts*, 3d Ser. IX. 109.)
15. Botanical Contributions. A Conspectus of the North American Hydrophyllacæ. March, 1875. (*Proc. Am. Acad. of Arts and Sciences*, X. 312.)
16. Bentham on the recent Progress and present State of Systematic Botany. April, 1875. (*Am. Jour. of Science and Arts*, 3d Ser. IX. 288, 346.)
17. Miscellaneous Botanical Contributions. Oct. 1875. (*Proc. Am. Acad. of Arts and Sciences*, XI. 71.)
18. Aestivation and its Terminology. Nov. 1875. (*Am. Jour. of Science and Arts*, 3d Ser. X. 339.)
19. Burs in the Borage Family. (*American Naturalist*, Jan. 1876; X. 1.)
20. Botany [of California]. Vol. I.) Polypetalæ, by W. H. Brewer and Sereno Watson. Gamopetalæ (also Astragalus and Saxifragacæ), by Asa Gray. Cambridge, 1876. (In a volume of the *California Geological Survey*.)
21. Our Wild Gooseberries. (*American Naturalist*, May, 1876; X. 270.)
22. Darwiniana: Essays and Reviews pertaining to Darwinism. New York, 1876. 80.
23. Botanical Contributions. Dec. 1876. (*Proc. Am. Acad. of Arts and Sciences*, XII. 51.)
 - i. Characters of Canbya (n. gen.) and Arctomecon.
 - ii. Characters of New Species, etc.
24. Notice of Darwin on the Effects of Cross- and Self-Fertilization in the Vegetable Kingdom. Feb. 1877. (*Am. Jour. of Science and Arts*, 3d Ser. XIII. 125.)
25. Botanical Contributions. Characters of some little-known or new Genera of Plants. May, 1877. (*Proc. Am. Acad. of Arts and Sciences*, XII. 159.)
26. Notes on the History of Helianthus tuberosus, the so-called Jerusalem Artichoke. By J. Hammond Trumbull and Asa Gray. May, 1877. (*Am. Jour. of Science and Arts*, 3d Ser. XIII. 347.)
27. The Germination of the Genus Megarrhiza, Torr. July, 1877. (Id. XIV. 21.)
28. Botanical Contributions. Jan. 1878. (*Proc. Am. Acad. of Arts and Sciences*, XIII. 361.)
 - i. Elatines Americanæ.
 - ii. Two New Genera of Acanthaceæ.
 - iii. New Astragali.
 - iv. Miscellanæ.
29. Synoptical Flora of North America. Vol. II. Part I. Gamopetalæ after Compositæ. New York, 1878. 1. 80.
30. Forest Geography and Archæology. A Lecture delivered before the Harvard University Natural History Society, 18 April, 1878. (*Am. Jour. of Science and Arts*, Aug. and Sept. 1878, 3d Ser. XVI. 85, 183.)
31. Dr. Jacob Bigelow. April, 1879. (Id. XVII. 263.)
32. The Botanical Text-Book. (Sixth Edition.) Part I. Structural Botany or Organography on the basis of Morphology. New York and Chicago, 1879. 80. Third Issue, with Addenda. 1880.
33. The Pertinacity and Predominance of Weeds. Sept. 1879. (*Am. Jour. of Science and Arts*, 3d Ser. XVIII. 161.)
34. Botanical Contributions. Oct. 1879. (*Proc. of Am. Acad. of Arts and Sciences*, XV. 25.)
 - i. Characters of some New Species of Compositæ in the Mexican Collection made by C. C. Parry and Edward Palmer; chiefly in the Province of San Luis Potosi in 1878.
 - ii. Some New North American Genera, Species, etc.
35. De Candolle's Phytography. Aug. and Sept. 1880. (*Am. Jour. of Science and Arts*, 3d Ser. XX. 150, 241.)
36. Botanical Contributions. Sept. 1880. (*Proc. Am. Acad. of Arts and Sciences*, XVI. 78.)
 - i. Notes on some Compositæ.
 - ii. Some Species of Asclepias.
 - iii. A New Genus of Gentianaceæ.
 - iv. Miscellanæ of the North American Flora.
37. Natural Science and Religion. Two Lectures delivered at the Theological School of Yale College. New York, 1880. 80.
38. In addition to the above, numerous Notes, Notices, etc., have appeared in the *Am. Jour. of Science and*

Arts (see Index at end of 3d Ser. X. and XX.), and in the *Bulletin of the Torrey Botanical Club* and *Coulter's Botanical Gazette*, as well as various contributions (botanical and otherwise) in the *American Agriculturist*, *Independent*, *Nation*, etc.

* See also the Reports of the Peabody Museum.

John Orne Green.

Lecturer on Otology, 1871-.

1. Progress of Otology. (*Trans. Am. Otological Soc.* 1870.)
2. A Case of Epithelioma of Auricle and Meatus. (Id. 1870; I. 92.)
3. Five Cases of Fatal Otorrhœa. (Id. 1871; I. 195. Condensed in *Boston Med. and Surg. J.*, Nov. 1871; LXXXV. 346.)
4. Cases of Injury to the Ear from External Violence. (*Trans. Am. Otological Soc.* 1872; I. 308.)
5. Chapters on External and Middle Ears and Eustachian Tube in Stricker's Manual of Histology. Translated by Dr. Green. New York, 1872.
6. Tenotomy of the Tensor Tympani Muscle. (*Trans. Am. Otological Soc.* 1873; I. 401.)
7. Ulceration of the Dermoid Layer of the Membrana Tympani. (Id. 1873; I. 431.)
8. Neuralgia in and about the Ear. (Id. 1874; I. 561.)
9. Cases illustrative of Mastoid Inflammation. (*Boston Med. and Surg. Jour.* Jan. 1874; XC. 77.)
10. Perforations of the Membrana Flaccida. Trans. of Boston Soc. for Medical Improvement. (Id. March, 1874; XC. 310.)
11. An Unusual Source of Otorrhœa. Trans. of Boston Soc. for Medical Observation. (Id. May, 1874; XC. 478.)
12. Vegetable Parasitic Growths. (*Trans. of Soc. of Medical Sciences*, March 31, 1874.)
13. Hyperostosis of the Mastoid. (*International Otological Soc.* 1876.)
14. Disease of the Brain in its Relation to Inflammations of the Ear. (*Med. and Surg. Reports of Boston City Hospital*, 2d Ser. 101. Boston 1877.)
15. Schwartz's Pathological Anatomy of the Ear. Translated by Dr. Green. Boston, 1878.
16. Coagulated Fibrin simulating Polypus of the Tympanum. (*Trans. Am. Otological Soc.* 1878.)
17. Objective and Subjective Systolic Murmurs in the Ears. (Id.)
18. The Audiphone and Dentaphone. (*Trans. of Soc. of Medical Sciences*, Jan. 20, 1880.)
19. Cases of Caries of the Mastoid. Trans. of Boston Soc. for Medical Improvement. (*Boston Med. and Surg. Journ.* April, 1880; CII. 324.)
20. The Importance of Early Recognition of Ear-Disease. (*Trans. Mass. Med. Soc.* 1880.)
21. Reports on the Progress of Otology. (*Boston Med. and Surg. Journ.* 1872-1880; LXXXVII.-CIII.)
22. Otitis Intermittens. (*Am. Journal of Otology*, I. No. 2.)
23. Phlebitis of Venæ Emissariæ Mastoideæ. (Id. I. No. 3.)

24. Phlebitis of the Mastoid Emissary Vein. (Id. II. No. 2.)

Francis Boott Greenough.

Lecturer on Syphilis, 1871-1875; Instructor in Syphilis, 1875-.

1. From 1871 to 1877, Dr. Greenough, as Secretary of the Boston Society for Medical Improvement, edited the Records of the Society in the *Boston Med. and Surg. Journal*, LXXXV.-XCV.
2. Lister's Syphilitic Corpuscle. (*Boston Med. and Surg. Journal*, Dec. 1872; LXXXVII. 405.)
3. Review of Lee on Syphilis. (Id. Dec. 1875; XCIII. 676.)
4. Concerning the Execution of Criminals. (Id. Dec. 1875; XCIII. 777.)
5. Extracts from the Records of the Boston Society for Medical Improvement. [With C. D. Holmes, M. D.] Vol. VI. Boston, 1876.
6. On the Treatment of the Chancroid. (*Boston Med. and Surg. Journal*, Jan. 1877; XCVI. 96.)
7. Notes on some of the most Frequent Forms of Skin Disease. (Id. Feb., March, April, June, 1877; XCVI. 213, 273, 425, 733.)
8. Dr. Bumstead's New Departure on the Chancroid. (Id. Feb. 1880; CII. 163.)
9. Extracts from the Records of the Boston Society for Medical Improvement. [With E. G. Cutler, M. D.] Vol. VII. Boston, 1880.
10. Herpes Progenitalis. Read at the Ann. Meeting of the American Dermatological Association, Aug. 28, 1881. (*Archives of Dermatology*, June, 1881. Reprinted in pamphlet form.)

James Bradstreet Greenough.

Tutor in Latin, 1865-1873; Assistant Professor of Latin, 1873-.

1. Analysis of the Latin Subjunctive. Cambridge, 1870. pp. 36.
2. The Subjunctive and Optative; read at the Oriental Society, and published in *North American Review*, Oct. 1871; CXIII. 415, as a review of Delbrück's "Conjunctiv und Optativ."
3. On Some Forms of Conditional Sentences in Latin, Greek, and Sanskrit. (*Trans. Am. Philol. Assoc.* 1871, 159.)
4. A Latin Grammar for Schools and Colleges, founded on Comparative Grammar. (With J. H. Allen.) Boston, 1872.
5. Select Orations of Cicero, chronologically arranged, covering the whole period of his Public Life. Edited by J. H. and W. F. Allen and J. B. Greenough. Boston, 1873. 80. [Fourth edition, Boston, 1878.]
6. New Latin Method. (With J. H. Allen.) [The first work to give directions and suggestions for reading at sight.] Boston, 1875.
7. A Latin Grammar. (With J. H. Allen.) Boston, 1877. [Another issue, Boston, 1878.]
8. Also a number of editions of Latin Text-Books for use in schools.

Hermann August Hagen.*Professor of Entomology, 1870—*

1. Ueber die Microscope Nordamerikas. (*Max Schultze's Archiv f. microscop. Anatomie*, VI. 205.)
2. Synopsis Pseudoscorpionidum Synonymica. (*Proc. Boston Soc. Nat. Hist.* March, 1870; XIII. 263.)
3. Entwicklung der Buchdruckerei und des Buchhandels in Nord Amerika. (*Koenigsberger Hartung'sche Zeitung*, 1870. No. 190.)
4. Ueber rationelle Benennung des Gaeaders in den Fluegeln der Insecten. (*Stettiner Entom. Zeitung*, April and June, 1870; Jahrgang XXXI. 316.)
5. Necrolog von Benjamin D. Walsh. (Id. XXXI. 354.)
6. Die Public Library in Boston. (*Koenigsberger Hartung'sche Zeitung*, 1870.)
7. Die Schuhmanufaktur in Neu England. (Id.)
8. List of the Neuroptera in Alaska. (*Alaska and its Resources*. By W. H. Dall. 588. Boston, 1870. 80.)
9. On a new dissecting Microscope. (*Proc. Boston Soc. Nat. Hist.* 1871; XIV. 387.)
10. Bedeutung des Getreide Handels und des Getreidebaues in Nord Amerika. (*Koenigsberger Hartung'sche Zeitung*, 1871.)
11. Die Baumwollen Industrie in Neu England. (Id.)
12. Der "Black Friday" der Neu Yorker Boerse. (Id.)
13. Notice on Dipterous Larvæ in a Child (*Cestrus avis*). (*Proc. Boston S. N. H.*, March, 1872; XV. 155.)
14. Mimicry in the Colors of Insects. (*Am. Naturalist*, July, 1872; VI. 388; reprinted in *Entomol. Monthly Mag.*, IX. 78.)
15. The Blind Crayfish. (*Am. Naturalist*, Aug. 1872; VI. 494.)
16. On the Larvæ of the Hemerobina. (*Proc. Boston S. N. H.*, Oct. 1872; XV. 243.)
17. On the Eggs of Perthostoma. (Id. Nov. 1872; XV. 254.)
18. Schmetterlinge mit Raupenkopf und aehnlichen Missbildungen. (*Stett. Entom. Zeit.* 1872; XXXIII. 388.)
19. Ueber die Eisenbahnen in Nord Amerika, und ihren Einfluss auf den Arbeitspreis. (*Koenigsberger Hartung'sche Zeitung*, 1872.)
20. Report on the Pseudoneuroptera and Neuroptera of N. America in the Collection of the late Th. W. Harris. [Monograph of Pteronarcys.] (*Proc. Boston S. N. H.*, Jan. 1873; XV. 263.)
21. Odonata from the Yellowstone. (*Sixth Ann. Report U. S. Geol. Survey of Territories*. By F. V. Hayden. 727. Washington, 1873.)
22. Notes on Mr. S. H. Scudder's Odonata of the Isles of Pines and White Mts. (*Proc. Boston S. N. H.*, March, 1873; XV. 373.)
23. On Prosopistoma and Baetisca. (Id. 377.) Sub-family Phryganidæ. (Id. April, 1873, 384.)
24. Die Larven von Ascalaphus. (*Stett. Entom. Zeit.* 1873; XXXIV. 33.)
25. Ueber die Entomologischen Arbeiten Hans Ström's. (Id. 225.)
26. Die Larven von Myrmeleon. (Id. 249, 377.)
27. Beitræge zur Kenntniss der Phryganiden. (*Verhandlung Zool. Bot. Gesell. Wien*. 1873; XXXIII. 377.)
28. Notes on Ephemeridae. (*Trans. Entom. Soc. London*, 1873, 381.)
29. The Origin of the "Tailed Man." (*Proc. Boston Soc. Nat. Hist.*, Dec. 1873; XVI. 192.)
30. On Amber in North America. (Id. Feb. 1874; XVI. 296.)
31. The Odonate Fauna of Georgia, from Original Drawings now in possession of Dr. John L. LeConte and in the British Museum. (Id. March, 1874; XVI. 349.)
32. The Linnean Signification of the generic term Papilio. (*Canad. Entomol.*, 1874; VI. 163.)
33. Report on the Neuroptera and Pseudoneuroptera collected by Lieut. W. L. Carpenter in 1873 in Colorado. (*Ann. Rep. U. S. Geol. and Geog. Survey of Territories*, 1875, 571.)
34. Development of Natural History Museums. (*Proc. Boston Soc. Nat. Hist.*, Feb. 1875; XVII. 387.)
35. Synopsis of the Odonata of America. (Id. May, 1875; XVIII. 211.)
36. On Attacus (Samia) Columbia and its Parasites. (*Bulletin of the Buffalo Soc. Nat. Sciences*, II. 201. Buffalo, 1875.)
37. Doryphora decemlineata, Say. (*Annal. Soc. Ent. Belgique*, XVIII. xxx.)
38. Lettre sur les Collections d'Entomologie Biologique du Musée de Cambridge. (Id. XVIII. 42.)
39. Sur la Poche des Femelles chez le Genre Euryalus. (Id. XVIII. 55.)
40. Capture of rare Pseudoneuroptera and Neuroptera. (*Psyche*, July, 1875; I. 96.)
41. Report upon the Collection of Neuroptera and Pseudoneuroptera made in portions of Colorado, New Mexico, and Arizona during the years 1872, 1873, and 1874. (*Rep. upon U. S. Geog. and Geol. Explorations and Surveys West of the One Hundredth Meridian*. By Geo. L. Wheeler. Vol. V. Zoölogy. Chap. XIV. 909. Washington, 1875.)
42. The History of the Origin and Development of Museums. [Read before the Boston Soc. Nat. Hist. Feb. 3, 1875.] (*Am. Naturalist*, Feb. and March, 1876; X. 80, 135.)
43. The Probable Danger from White Ants. (Id. July, 1876; X. 401.)
44. Pseudoneuroptera (of Kerguelen Island. Rhyopsocus). (*Contributions to the Nat. Hist. of Kerg. Island*, 52. By J. H. Kidder. Washington, 1876.)
45. On Genera. [Read before the Entom. Club of Am. Assoc. for Advancement of Science at Buffalo, Aug. 22, 1876.] (*Buffalo Courier*, Aug. 23, 1876. Reprinted in *Canadian Entomologist*, VIII. 193, and in *Rep. Entom. Soc. of Ontario* for 1876.)
46. List of Neuroptera [coll. by Capt. Jones' Expedition to North-Western Wyoming in 1873]. (*Proc. of Davenport Academy of Nat. Sciences*, I. 191. 1876.)

47. Neuroptera and Pseudoneuroptera collected in Utah in the Summer of 1875. (Id. I. 204. 1876.)
48. The Librarian's Work. (*Nation*, Jan. 18, 1877, No. 603; XXIV. 40.)
49. Note on Termites. (*Proc. Boston Soc. Nat. Hist.* Jan. 1877; XIX. 73.)
50. Extent of the N. American Faunal Region Southwards. (*Psyche*, May and June, 1877; II. 42.)
51. Attachment of Pollinia to Insects. (Id. II. 42.)
52. Symphrasis; eine neue Mantispiden Gattung. (*Stett. Entom. Zeit.* XXXVIII. 208.)
53. Beitrage zur Kenntniss von Pteronarcys. (Id. 477.)
54. Lead-boring Insects. (*Field and Forest*, Oct. 1877, 55. Washington.)
55. On Samia Gloveri. (*Canad. Entomol.* IX. 13.)
56. The Sparrows. [Written at the request of the late Thomas M. Brewer, who directed its publication in different papers to the extent of 300,000 copies.] (*Boston Evening Transcript*, March 28, 1878. *American Cultivator*, April 6, 1878. *Worcester Evening Gazette*, April 30, 1878. *American Agriculturist* [English and German edit.], May, 1878. *Report upon Cotton Insects*, by J. H. Comstock, 1879, 150.)
57. Rectifications concernant l'Epithea yamaskensis, Provench. (*Annales Soc. Entom. Belgique*, XXI. 86.)
58. Insects imported from Europe. (*Psyche*, Sept.-Dec. 1878; II. 191.)
59. Additions et Corrections aux Néuroptères de la Province de Quebec. (*Le Naturaliste Canad.* X. 124.)
60. Descriptions of New Species and Additions [Gomphidae]. (De Selys Longchamps: *Quatrième Addition au Synopsis des Gomphides*. Bruxelles, 1878.)
61. Description of New Species and Additions [Cordulidae]. (De Selys Longchamps: *Seconde Addition au Synopsis des Cordulides*. Bruxelles, 1878.)
62. On the Natural History of Gall-Insects. (*Canad. Entom.* X. 85.)
63. On Mermis, a Parasite of the larva of Carpopomona. (Id. 155.)
64. On the new Carpet-Bug. (Id. 161.)
65. The Carpet-Pest. (*Boston Daily Advertiser*, July 6, 1878.)
66. The Carpet-Bug. (*Boston Sunday Globe*, July 7, 1878.)
67. Troublesome Insects. The Carpet-Beetle and other House and Domestic Pests. (Pulex.) [Read before Thursday Club.] (*Boston Daily Advertiser*, Dec. 19, 1878. *Worcester Evening Gazette*, Dec. 1878.)
68. Museum Pests observed in Cambridge. (*Proc. Boston Soc. Nat. Hist.*, 1878; XX. 56. Reprinted in *Journal of Science*, June, 1879; X. 90. Abstract in *Nature*, May, 1879; XX. 106.)
69. Larvae of Insects discharged through the Urethra [with the literature of similar cases in full]. (*Proc. Boston Soc. Nat. Hist.*, Nov. 1878; XX. 107.)
70. Birds swarming after White Ants [in Cambridge]. (Id. 118.)
71. Remarks on White Ants. (*Proc. Boston Soc. Nat. Hist.*, XX. 121.)
72. Flies from a Petroleum Lake. (Id. Jan. 1879; 134.)
73. Attacks of Native Insects upon Imported Trees. (*Psyche*, Feb. 1879; II. 210.)
74. Obnoxious Pests. [Destruction by Application of Yeast. Read before the Thursday Club, April 3.] (*Boston Evening Transcript*, April 11, 1879. Reprinted in *Worcester Evening Gazette*, April; in *Canad. Entom.* XI. 110; abstract in *Nature*, Dec. 1879; XXI. 188; in *Nation*, Dec. 11, 1879, No. 754; XXIX. 402; translation in *Stett. Entom. Zeit.* XL. 369; XLI. 355.)
75. Insect Pests in Libraries. [Read before Am. Library Assoc.] (*Boston Morning Journal*, July 3, 1879.)
76. The Yellow-Fever Fly. (*Boston Daily Advertiser*, July 21, 1879.)
77. Hoehlen-Chelifer in Nord Amerika. (*Zoolog. Anzeiger*, II. 399. Leipzig, 1879.)
78. The Typical Collections of Diptera in the Museum in Cambridge. (*Canad. Entomol.* XI. 132.)
79. Gerhard's systematisches Verzeichniss der Amerikanischen Schmetterlinge. (*Stett. Entom. Zeit.* XL. 475.)
80. Insect Pests in Libraries; with the addition of the literature. (*Library Journal*, 1879; IV. 251, 373.)
81. Jahresbericht ueber die Arbeiten ueber Pseudoneuropteren und Neuropteren. (*Zool. Jahresbericht*, 1879, 562. Leipzig, 1880.)
82. A New Species of Simulium, with remarks about the Nympha Case. (*Proc. Boston Soc. Nat. Hist.*, 1880; XX. 305.)
83. Notes upon Parasites in the Flesh of a Mallard Duck. (*Forest and Stream*, March, 1880. *N. Y. Weekly Tribune*, April, 1879.)
84. Beitrag zur Kenntniss des Tracheensystems der Libellen-Larven. (*Zool. Anzeiger*, April, 1880; III. 156.)
85. Schaedliche Insecten durch den Hefenpils zu toedten. (Id. April, 1880; III. 185.)
86. The Destruction of Insect Pests by Application of Yeast. (*Nature*, London, April, 1880; XXI. 611.)
87. Kiemenueberreste bei einer Libelle; glatte Muskelfasern bei Insecten. (*Zool. Anzeiger*, June, 1880; III. 304.)
88. The Yellow-Fever Fly. (*Psyche*, Sept. 1880; III. 111.)
89. On an Aquatic Sphinx Larva. (Id. 113.)
90. On the Destruction of Obnoxious Insects by Yeast. (*Canad. Entomol.* XII. 81.)
91. Cordyceps Ravenellii on the larvae of Phyllophaga. (Id. 89.)
92. The exceedingly numerous Appearance of a Phryganea. (Id. 108.)
93. A New Enemy of the Black Spruce [*Abies nigra*]. (Id. 121.)
94. A Mystery in reference to Pronuba Yucasella. (Id. 128.)
95. The Hessian Fly not imported from Europe. [Read before the entomological section of the Am. Assoc. for Advancement of Science.] (Id. 197.)
96. Destruction of Obnoxious Insects — Phylloxera, Potato-beetle, Cottonworm, Colorado Grass-

- hopper, and Greenhouse Pests—by Application of Yeast Fungus. Cambridge, 1880. pp. 11. (Reprinted in full or in part in a large number of home and foreign papers, such as: *Bayerische Industrie- und Gewerbeblatt*, 1880, 212; *St. Petersburger deutsche Zeit.* Feb. 7 (19); *New York Weekly Tribune*, Feb. 4, 1880; *Salt Lake Semi-Weekly Herald*, Dec. 17, 1880; *Compt. Rend.* Paris, Feb. 9, 1880; *Koenigsberger Hartungsche Zeit.*, Jan. 1881; *Schriften Oecon. Phys. Gesell.* Koenigsberg, 1880; *Bulletin Soc. Entom. Ital.*, 1880.)
97. Ueber die Bestimmung der von Linné beschriebenen Arten der Gattung Phryganea. (*Stett. Entomol. Zeit.* XLI. 97.)
98. Neue Neuroptera in Die Insecten von Vitus Graber. (Id. 106.)
99. R. M'Lachlan's Monographic Revision and Synopsis of Trichoptera of Europe. (Id. 118.)
100. The probable Parthenogenesis of Ceridomyia destructor. (*North American Entomol.* No. 9, I. 65.)
101. On Chthonius Packardii. (*Am. Entomol.* III. 83.)
- * See also the Memoirs and Reports of the Museum of Comparative Zoölogy.

Charles Edward Hamlin.

Instructor in Geography and Geology, 1875-1877; *Assistant in Conchology and Palaeontology*, 1877- .

* See the Reports of the Museum of Comparative Zoölogy.

Nathaniel Ware Hawes.

Assistant Professor of Operative Dentistry, 1870-1879.

1. The Reflex Influence of the Abnormal Condition of the Female Pelvic Organs on the Teeth, and the Reflex Influence of Diseased Teeth on other organs and systems. (*Gynecological Journal*, 1870.)
2. The Six Year Old Molars. (*Dental Cosmos*, 1875.)
3. The Treatment of Exposed Pulp of Teeth. (*Trans. New York Odontological Soc.*)

Frederic Henry Hedge.

Professor of Ecclesiastical History, 1857-1876; *Professor of German*, 1872-1881.

1. German Prepositions. Cambridge, 1874. pp. 26.
2. Ways of the Spirit and other Essays. Boston, 1877. 80.
3. Various essays in periodicals.

Adams Sherman Hill.

Assistant Professor of Rhetoric, 1872-1876; *Boylston Professor of Rhetoric and Oratory*, 1876- .

1. Causes of the Commune. (*North American Review*, Jan. 1873; CXVI. 90.)
 2. General Rules for Punctuation and for the Use of Capital Letters. Cambridge, 1874. pp. 12.
- * Successive issues of this tract have been revised and enlarged; the eleventh thousand, bearing date 1880, consists of 44 pages. It is also included in the Appendix of No. 5.
3. Forster's Life of Jonathan Swift. (*North American Review*, July, 1876; CXXIII. 170.)

4. Salter's Life of James W. Grimes. (Id. July, 1876; CXXIII. 186.)
 5. The Principles of Rhetoric and their Application. New York, 1878.
- * This has appeared in several successive editions.
6. An Answer to the Cry for More English. (*Good Company* [Springfield, Mass.], 1879; IV. No. 3, 233.)

George Anthony Hill.

Tutor in Physics, 1865-1871; *Assistant Professor of Physics*, 1871-1876.

1. Questions and Exercises on Stewart's Elementary Physics. Boston, 1874. 120.

* See also the University Publications.

Henry Barker Hill.

Assistant in Chemistry, 1870-1874; *Assistant Professor of Chemistry*, 1874- .

1. Determinations of the Percentage of Carbonic Acid in Air. In "Air and Some of its Impurities," by George Derby, M.D. (*Second Ann. Rep. Mass. State Bd. of Health*, 404. Boston, 1871.)
2. The Adulterations and Impurities of Food. (*Third Ann. Report Mass. State Bd. of Health*, 132. Boston, 1872.)
3. The Adulterations and Impurities of Food. (*Fourth Ann. Rep. Mass. State Bd. of Health*, 380. Boston, 1873.)
4. Lecture Notes on Qualitative Analysis. [New York, 1874.]
5. Ueber die Aether der Harnsäure, I. (*Berichte der deutschen chemischen Gesellschaft*, March, 1876; IX. 370.)
6. Ueber die Aether der Harnsäure, II. (Id. July, 1876; IX. 1090.)
7. On the Ethers of Uric Acid. (*Proc. Am. Acad. of Arts and Sciences*, 1876; XII. 26.)
8. On the Ethers of Uric Acid. (*Am. Journal of Science and Arts*, Dec. 1876; 3d Ser. XII. 428.)
9. Ueber einige Produkte der Distillation des Holzes bei niedriger Temperatur. (*Berichte der deutsch. chem. Gesellschaft*, May, 1877; X. 936.)
10. Ueber die Mucobromsäure, I. With O. R. Jackson. (Id. Feb. 1878; XI. 289.)
11. Ueber das Pyroxanthin. (Id. March, 1878; XI. 456.)
12. Ueber die Dimethylharnsäure. With C. F. Mabery. (Id. July, 1878; XI. 1329.)
13. Zur Harnsäureformel. (Id. Sept. 1878; XI. 1670.)
14. Ueber die Mucobromsäure, II. With O. R. Jackson. (Id. Sept. 1878; XI. 1671.)
15. Ueber die Dichloracrylsäure aus Mucochlorsäure. With W. Z. Bennett. (Id. April, 1879; XII. 655.)
16. Zur Geschichte der disubstituirten Acrylsäuren. (Id. April, 1879; XII. 658.)
17. Ueber die Mucobromsäure, III. (Id. April, 1880; XIII. 734.)
18. Ueber die Oxydationsprodukte der Dimethylharnsäure. With C. F. Mabery. (Id. XIII. 739.)

19. On the Ethers of Uric Acid, II. Dimethyluric Acid. With C. F. Mabery. (*Proc. Am. Acad. of Arts and Sciences*, April, 1880; XV. 256.)
20. On the Ethers of Uric Acid, Dimethyluric Acid, II. With C. F. Mabery. (*Am. Chemical Journal*, II. 395.)
21. Contributions from the Chemical Laboratory of Harvard College: Furfural, one of the Products of the Dry Distillation of Wood; Pyroxanthin; Mucobromic Acid; Mucochloric Acid; Substituted Acrylic Acids from Brompropionic Acid; Theoretical Considerations. (*Proc. Am. Acad. of Arts and Sciences*, 1880; XVI. 155.)

William Barker Hills.

Instructor in Chemistry, 1874- .

1. Reports on "Recent Progress in Medical Chemistry." (*Boston Med. and Surg. Journal*, C. 293; CI. 267, 304; CII. 127; CIII. 106.)

Thomas Barnes Hitchcock.

Professor of Dental Pathology and Therapeutics, 1868-1874.

1. Pathology of the Teeth. By Dr. Carl Wedl. Edited and annotated by Dr. Hitchcock. Philadelphia, 1872.
2. Reports on Dental Histology and Microscopy. (*Trans. Odontological Soc.*, 1873.)
3. Essay upon "Dental Education."
4. The Physical Properties of Dental Amalgams. (*Trans. New York Odontological Soc.*, Dec. 1874. 26. Phila. 1875.)

Harry Blake Hodges.

Instructor in Chemistry and German, 1875- .

1. A Course in Scientific German. Boston, 1877. 120.

Nathaniel Dana Carlile Hodges.

Assistant in Physics, 1877- .

1. A Method of determining the Dip. (*Am. Journal of Science and Arts*, Feb. 1879; 3d Ser. XVII. 145.)
2. On the Size of Molecules. (*Philosophical Magazine*, July, 1879; 5th Ser. VIII. 74. Also in *Am. Journal of Science and Arts*, Aug. 1879; 3d Ser. XVIII. 135.)
3. On the Mean Free Path of a Molecule. (*Philosophical Magazine*, March, 1880; 5th Ser. IX. 177. Also in *Am. Journal of Science and Arts*, March, 1880; 3d Ser. XIX. 222.)

Nathaniel Holmes.

Royall Professor of Law, 1868-1872.

1. The Authorship of Shakespeare. 3d edition. With an Appendix of Additional Matters, including a Notice of the recently discovered Northumberland MSS. New York, 1875. 80.

Oliver Wendell Holmes.

Parkman Professor of Anatomy and Physiology, 1847-.

1. Rip Van Winkle, M.D.; an After-Dinner Prescription Taken by the Mass. Med. Soc., at their Meeting held May 25, 1870. (*Boston Med. and Surg. Journal*, June, 1870; LXXXII. 444.)
2. Mechanism in Thought and Morals. An Address delivered before the Phi Beta Kappa Society of Harvard University. Boston, 1871. 160.
3. Valedictory Address to the Students of the Bellevue Hospital College. New York, 1871.
4. The Poet at the Breakfast-Table. Boston, 1872.
5. The Claims of Dentistry; an Address delivered at the Commencement of the Dental School of Harvard University. (*Boston Med. and Surg. Journal*, Feb. 1872; LXXXVI. 133. Also printed separately, Boston, 1872.)
6. Songs of Many Seasons. Boston, 1874.
7. Professor Jeffries Wyman. A Memorial Outline. (*Atlantic Monthly*, Nov. 1874; XXXIV. 611.)
8. Physiology of Versification. (*Boston Med. and Surg. Journal*, Jan. 1875; XCII. 6.)
9. Tribute to the late Dr. Charles G. Putnam. (Id. Feb. 1875; XCII. 163.)
10. Crime and Automatism. With a Notice of M. Prosper Despine's *Psychologie Naturelle*. (*Atlantic Monthly*, April, 1875; XXXV. 466.)
11. Poetical Works. [With many new Poems.] Boston, 1877.
12. An Address delivered at the Annual Meeting of the Boston Microscopical Society. (*Boston Med. and Surg. Journal*, May, 1877; XCVI. 601.)
13. Where to Go in Summer. [Graveyard Statistics.] (Id. Nov. 1877; XCVII. 513.)
14. Correction of an Anatomical Error in Darwin's "Descent of Man." (Id. Jan. 1878; XCVIII. 59.)
15. Visions: A Study of False Sight. (Pseudopia.) By Edward H. Clarke. With an Introduction and Memorial Sketch by Oliver Wendell Holmes. Boston, 1878. 80.
16. The School Boy. Poem read at the Centenary of Phillips Academy, Andover, Mass., June 10, 1878. Boston, 1878. 80.
17. John Lothrop Motley. A Memoir. Boston, [1878] 1879. 80. (Abstract of this in *Proc. Mass. Hist. Soc.*, 1878; XVI. 404.)
18. Address at the Dedication of the Boston Medical Library. (*Boston Med. and Surg. Journal*, Dec. 1878; XCIX. 745.)
19. Tribute to the late Prof. John Barnard Swett Jackson. (Id. Jan. 1879; C. 63.)
20. Memoir of Dr. Jacob Bigelow. (*Proc. Am. Acad. of Arts and Sciences*, May, 1879; XIV. 333.)
21. Jonathan Edwards. (*International Review*, July, 1880; IX. 1.)

Oliver Wendell Holmes, Jr.

Instructor in the Constitution of the United States, 1870-1871; *University Lecturer on Jurisprudence*, 1871-1872.

1. Articles, Book Notices, and Editorials while Editor of the *American Law Review* from 1870 to 1873; V., VI., VII.

2. Kent's Commentaries on American Law. 12th Ed. Edited and revised by O. W. Holmes, Jr. Boston, 1873. 4 vols. 8°.

William Dean Howells.

University Lecturer on Recent Italian Literature, 1869-1871.

1. Some Arcadian Shepherds. (*Atlantic Monthly*, Jan. 1872; XXIX. 84.)
2. The Florentine Satirist, Giusti. (*North American Review*, July, 1872; CXV. 31.)
3. Niccolini's Anti-Papal Tragedy. (Id. Oct. 1872; CXV. 333.)

Charles Loring Jackson.

Assistant in Chemistry, 1868-1871; Assistant Professor of Chemistry, 1871-.

1. Einige neue organische Selenverbindungen. (*Berichte der deutschen chemischen Gesellschaft*, Sept. 1874; VII. 1277. Berlin.)
2. Methyl- und Benzylmonoselenid. (Id. Feb. 1875; VIII. 109.)
3. Ueber Benzylselenocyanat. (Id. March, 1875; VIII. 321.)
4. Ueber eine neue Base aus dem Nachlauf des Anilins. (Id. July, 1875; VIII. 968.)
5. (With A. Oppenheim.) Zwei Derivate des Quecksilbermercaptids. (Id. Sept. 1875; VIII. 1032.)
6. Ueber die Einwirkung wasserentziehender Mittel auf Acetanilid. (Id. 1170.)
7. Die Derivate des Tribrombenzols aus Tribromanilin. (Id. 1172.)
8. Einige Methyl- und Benzylselenverbindungen. (*Annalen der Chemie*, Nov. 1875; CLXXIX. 1. Translated in *Am. Journal of Science and Arts*, Aug. 1875; 3d Ser. X. 139.)
9. (With W. Lowery.) Ueber substituirte Benzylverbindungen. (*Ber. der deutsch. chem. Gesell.*, Jan. 1876; VIII. 1672.)
10. Vergleich der Ersetzbarkeit des Broms in den drei Brombenzylbromiden. (Id. June, 1876; IX. 931.)
11. Notiz ueber die Base $C_{13}H_{18}N$ aus dem Nachlauf des Anilins. (Id. May, 1877; X. 960.)
12. On a Base derived from a Waste-product in the Aniline Manufacture. (*Am. Journal of Science and Arts*, June, 1877; 3d Ser. XIII. 449. [Translation of Nos. 4 and 11.]
13. Certain substituted Benzylbromides. (*Proc. Am. Acad. of Arts and Sciences*, XII. 209. Reprinted in *American Journal of Chemistry*, I. 93.)
14. (With W. Lowery.) Parabrombenzyl Compounds. (*Proc. Am. Acad. of Arts and Sciences*, XII. 221. Abstract in *Ber. der deutsch. chem. Gesell.*, July, 1877; X. 1209.)
15. (With C. F. Mabery.) On Paraiodbenzyl Compounds. May, 1877. (*Proc. Am. Acad. of Arts and Sciences*, XIII. 202. Reprinted [with additions] in *American Journal of Chemistry*, II. 250. Abstract in *Ber. der deutsch. chem. Gesell.*, Jan. 1878; XI. 55.)
16. Review of Menshutkin's paper on Etherification. (*Am. Journal of Science and Arts*, March, 1878; 3d Ser. XV. 213.)
17. (With J. Fleming White.) Substituirt Benzaldehyde. (*Ber. der deutsch. chem. Gesell.*, May, 1878; XI. 1042.)
18. Review of Van 't Hoff's *Chimie dans l'Espace*. (*Am. Journal of Science and Arts*, July, 1878; 3d Ser. XVI. 66.)
19. Lecture Notes in Chemistry I. [Two Editions.] 1878.
20. (With A. W. Field.) Parachlorbenzyl Compounds. (*Proc. Am. Acad. of Arts and Sciences*, XIV. 54. Reprinted in *Am. Journal of Chemistry*, II. Abstract in *Ber. der deutsch. chem. Gesell.*, May, 1878; XI. 904.)
21. (With J. F. White.) Parachlorbenzyl Compounds. (*Proc. Am. Acad. of Arts and Sciences*, XIV. 306. Reprinted in *Am. Journal of Chemistry*, II. 158. Abstract in *Ber. der deutsch. chem. Gesell.*, June, 1880; XIII. 1217.)
22. (With J. F. White.) Synthese des Anthracens. (*Ber. der deutsch. chem. Gesell.*, Oct. 1879; XII. 1965.)
23. Ersetzbarkeit des Broms in den Monobrombenzylbromiden. (Id. Dec. 1879; XII. 2243.)
24. (With A. W. Field.) The Action of Bromine on Toluol and some of its Derivatives. June, 1878. (*Proc. Am. Acad. of Arts and Sciences*, XV. 202. Reprinted in *Am. Journal of Chemistry*, II. 1. Abstract in *Ber. der deutsch. chem. Gesell.*, June, 1880; XIII. 1215.)
25. (With J. F. White.) Orthobrombenzyl Compounds. (*Proc. Am. Acad. of Arts and Sciences*, XV. 213. Abstract in *Ber. der deutsch. chem. Gesell.*, June, 1880; XIII. 1218.)
26. (With J. F. White.) Substituted Benzaldehydes. April, 1880. (*Proc. Am. Acad. of Arts and Sciences*, XV. 267.)

John Barnard Swett Jackson.

Shattuck Professor of Morbid Anatomy, 1847-1879, and Curator of the Anatomical Museum.

1. A Descriptive Catalogue of the Warren Anatomical Museum. Boston, 1870. 8°.
2. Discharge of Gall-Stones at the Umbilicus, with Dissection. (*Boston Med. and Surg. Journal*, Dec. 1870; LXXXIII. 412.)
3. Typhoid Fever. (Id. Aug. 1872; LXXXVII. 93, 125.)
4. (With Henry Tuck.) Rare Form of Monstrosity; Case of Acephalus. (Id. April, 1876; XCIV. 439.)
5. Rhinencephalus and some Allied Forms of Monstrosity. (Id. Jan. 1878; XCVIII. 66.)
6. Fractured Patella. (Id. May, 1878; XCVIII. 572.)
7. Specimens in the Army Medical Museum. (Id. Oct. 1878; XCIX. 504.)

William James.

Instructor in Anatomy and Physiology, 1872-1876; Assistant Professor of Physiology, 1876-.

1. Remarks on Spencer's Definition of Mind as Correspondence. (*Journal of Speculative Philosophy*, Jan. 1878; XII. 1.)

2. Quelques Considérations sur la Méthode Subjective. (*La Critique Philosophique*, 24 Janvier, 1878; Sixième Année, II. 407.)
3. Brute and Human Intellect. (*Journ. of Spec. Philos.*, July, 1878; XII. 236.)
4. Are We Automata? (*Mind*, Jan. 1879; IV. 1.)
5. The Spatial Quale. (*Journ. of Spec. Philos.*, Jan. 1879; XIII. 64.)
6. The Sentiment of Rationality. (*Mind*, July, 1879; IV. 317.)
7. The Association of Ideas. (*Popular Science Monthly*, March, 1880; XVI. 577.)
8. The Feeling of Effort. (*Anniversary Memoirs of Boston Soc. of Nat. Hist.*, Boston, 1880.)

Benjamin Joy Jeffries.

University Lecturer on Optical Phenomena and the Eye, 1869-1871.

1. The Eye in Health and Disease. Boston, 1871.
2. Dangers from Color-Blindness in Railroad Employés and Pilots. (*Ninth Ann. Rep. Mass. State Bd. of Health*, 97. Boston, 1878. Also printed separately, pp. 40, Boston, 1878.)
3. Color-Blindness, its Dangers and its Detection. Boston, 1879.

Frederick Irving Knight.

Lecturer on Laryngoscopy, 1870-1871; Instructor in Auscultation, Percussion, and Laryngoscopy, 1872-1879; Instructor in Laryngoscopy, 1879-

1. Reports on Diseases of the Throat. (*Boston Med. and Surg. Journal*, 1872-1880; LXXXVII. 353, 374; LXXXVIII. 492, 518; LXXXIX. 505, 530; XCII. 380, 410; XCIV. 387, 418; XCVII. 387, 416; XCIX. 183, 211; CI. 192, 230; CIII. 131, 154.)
2. Clinical Lecture on Diseases of the Throat. (Id. March and April, 1873; LXXXVIII. 238, 343.)
3. Methods of Removing Growths from the Larynx. (Id. Sept. 1873; LXXXIX. 301.)
4. A Case of Complete Paralysis of one recurrent Laryngeal Nerve, and Partial Paralysis of the other, with marked Diminution in Sensation in the Larynx. (*Archives of Elec. and Neurol.*, I. 4. New York)
5. Reports on Diseases of the Chest. (*Boston Med. and Surg. Journal*, 1874-1880; XC. 499, 524; XCI. 323; XCIII. 417, 437; XCV. 409, 436; XCVIII. 205, 237; C. 325, 359; CII. 152, 171.)
6. Action of the Soft Palate in Speaking and Swallowing. (Id. July, 1874; XCI. 80.)
7. A Remarkable Complication of so-called Catarrhal Pneumonia. (Id. May, 1875; XCII. 549.)
8. Laryngoscopic Clinic at the Mass. General Hospital. (Id. Sept. 1875; XCIII. 314.)
9. Case of Anosmia following a Blow on the Occiput. (Id. Sept. 1877; XCVII. 293.)
10. Foreign Body imbedded in the Base of the Tongue. (Id. Jan. 1878; XCVIII. 109.)
11. Aneurism of the Aorta. (Id. May, 1878; XCVIII. 605.)
12. Lymphosarcoma of the Neck involving the Lung. (Id. Oct. 1878; XCIX. 498.)

13. Retro-pharyngeal Sarcoma. (*St. Louis Med. and Surg. Journal*, XXXVII. 266.)
14. Abscess of the Liver, opening into the Lung, with Recovery. (*Boston Med. and Surg. Journal*, Nov. 1879; CI. 698.)
15. The Dangers of Thoracentesis and Injections into the Pleural Cavity. (Id. Aug. 1880; CII. 397.)
16. Chorea of the Hyo-Thyroid Muscles. (*Archives of Laryngology*, I. 154. New York, 1880.)
17. Acute Idiopathic Inflammation of the Normal Thyroid Gland. (Id. I. 155.)

* Dr. Knight has been Associate Editor of the *Archives of Laryngology* from its foundation in 1880.

Christopher Columbus Langdell.

Dane Professor of Law, 1870-

1. A Selection of Cases on the Law of Contracts, with References and Citations. Boston, 1871. 8°.
2. Sales of Personal Property, with References and Citations. Boston, 1872. 8°.
3. A Summary of Equity Pleading. Cambridge, 1877. 8°.
4. Cases in Equity Pleading, selected with special reference to the subject of Discovery. Cambridge, 1878. [Printed, not published.]
5. A Selection of Cases on the Law of Contracts, with a Summary of the topics covered by the cases. Second ed. Parts I. and II. Boston, 1877. 8°.
6. A Summary of the Law of Contracts. Second ed. Boston, 1880. 12°. [This is the Summary mentioned in No. 5, published separately.]

John Lathrop.

Lecturer on Shipping and Admiralty, 1871-1872; Lecturer on Torts, 1873-1874.

1. Massachusetts Reports. CXV. March-Sept. 1874. Boston, 1875. 8°.

James Laurence Laughlin.

Instructor in Political Economy, 1878-

1. Roscher's Political Economy. (*Literary World* [Boston], March, 1879; X. 99.)
2. Jules Simon on the Government of M. Thiers. (Id. May, 1879; X. 147.)
3. Adams' Life of Gallatin. (Id. Aug. 1879; X. 270.)
4. Protection and Socialism. (*International Review*, Oct. 1879; VII. 427.)
5. Seyd on Bi-Metallism. (*Literary World*, March, 1880; XI. 89.)
6. The New Edition of the Lex Salica. (Id. Aug. 1880; XI. 271.)
7. Blanqui's History of Political Economy. (Id. Nov. 1880; XI. 407.)

* Mr. Laughlin has also written other notices and reviews in various journals.

Henry Cabot Lodge.

Instructor in History, 1876-1879.

1. Alexander Hamilton. (*North American Review*, July, 1876; CXXIII. 113.)
2. (In conjunction with Prof. Henry Adams.) Von Holst's History of the United States. Vol. I. (Id. Oct. 1876; CXXIII. 328.)
3. Life and Letters of George Cabot. Boston, 1877. 80.
4. Timothy Pickering. (*Atlantic Monthly*, June, 1878; XLI. 739.)
5. The Last of the Puritans. [Sewall Diary, Vol. I.] (*Magazine of American History*, Nov. 1878; II. 641.)
6. Editorship of *International Review*, with J. T. Morse, Jr., since March, 1879.
7. Life of Caleb Strong. (*Proc. Mass. Hist. Soc.*, 1791-1835; I. 290. Also printed separately, pp. 29. Cambridge, 1879.)
8. A Short History of the English Colonies in America. New York, 1881. 80.

. Mr. Lodge has also written a large number of critical notices and some political articles for the *Nation*, *Atlantic Monthly*, *Literary World*, *North American Review*, *International Review*, *Law Review*, etc.

. See also the Bulletin of the Library.

Joseph Lovering.

Hollis Professor of Mathematics and Natural Philosophy, 1838-

1. Editorship of *Proceedings of American Association for Advancement of Science*, Vols. XVIII. 1-311 (1870); XIX. 1-387 (1871); XX. 1-447 (1872); XXI. 1-295 (1873).
2. On Methods of illustrating Optical Meteorology. (*Proc. Am. Assoc. for Advancement of Science*, XIX. 64. Cambridge, 1871.)
3. Notice of John F. W. Herschel. Communicated June, 1872. (*Proc. Am. Acad. of Arts and Sciences*, VIII. 461.)
4. On the Determination of Transatlantic Longitudes by Means of the Telegraphic Cables. Jan. 1873. (*Memoirs of Am. Acad. of Arts and Sciences*. New Series, IX. 437.)
5. Editorship of *Proceedings of American Academy of Arts and Sciences*, VIII. 1-680 (1873).
6. Notice of Christopher Hansteen. May, 1873. (Id. IX. 282.)
7. Editorship of *Memoirs of Amer. Acad. of Arts and Sciences*; New Series, IX. 1-436 (1873).
8. On Sympathetic Vibrations. (*Proc. Am. Assoc. for Advancement of Science*, XXI. 59. Cambridge, 1873.)
9. Notice of Auguste A. de la Rive. May, 1874. (*Proc. Am. Acad. of Arts and Sciences*, IX. 356.)
10. Addresses at the Portland Meeting. (*Proc. Am. Assoc. for Advancement of Science*, XXII. 417. Salem, 1874.)
11. Address as Retiring President. (Id. XXIII. 1. Salem, 1875. Reprinted in *Am. Journal of Science and Arts*, Oct. 1874; 3d Ser. VIII. 297. Also in *Popular Science Monthly*, Dec. 1874, Jan. 1875; VI. 197, 308. Also in *Philosophical Magazine* [London], Jan. 1875; 4th Ser. XLVIII. 493.)

12. On a New Way of Illustrating the Vibrations of the Air in Organ Pipes. (*Proc. Am. Assoc. for Advancement of Science*, XXIII. 113. Salem, 1875.)
13. Notice of James Walker. May, 1875. (*Proc. Am. Acad. of Arts and Sciences*, X. 485.)
14. Notice of Joseph Winlock. May, 1876. (Id. XI. 339.)
15. On a New Method of measuring the Velocity of Electricity. (*Proc. Am. Assoc. for Advancement of Science*, XXIV. 35. Salem, 1876.)
16. Notice of Alexis Caswell. May, 1877. (*Proc. Am. Acad. of Arts and Sciences*, XII. 307.)
17. Notice of John H. Temple. May, 1878. (Id. XIII. 449.)
18. Notice of Joseph Henry. May, 1879. (Id. XIV. 356.)
19. Notice of Heinrich W. Dove. May, 1880. (Id. XV. 383.)

James Russell Lowell.

Smith Professor of the French and Spanish Languages and Literatures, and Professor of Belles Lettres, 1855-

1. Among My Books. Boston, 1870. 16^o.
2. The Cathedral. (*Atlantic Monthly*, Jan. 1870; XXV. 1; *Poetical Works*, 393. Boston, 1877. Also printed separately, Boston, 1870. 16^o.)
3. A Virginian in New England Thirty-Five Years Ago. (*Atlantic Monthly*, Aug., Sept., Oct., Dec. 1870, June, 1871; XXVI. 1, 62, 333, 482, 739; XXVII. 673.)
4. My Study Windows. Boston, 1871. 12^o.
5. Pope. (*North American Review*, Jan. 1871; CXII. 178. Also in *My Study Windows*, 385.)
6. Goodwin's Plutarch's Morals. (*North Am. Rev.*, April, 1871; CXII. 460.)
7. Masson's Life of Milton. (Id. Jan. 1872; CXIV. 204.)
8. The Shadow of Dante. (Id. July, 1872; CXV. 139. Also, under title "Dante," in *Among My Books*, 2d Series.)
9. Agassiz. (*Atlantic Monthly*, May, 1874; XXXIII. 586.)
10. Spenser. (*North Am. Rev.*, April, 1875; CXX. 334.)
11. Sonnet to F. A. (*Atlantic Monthly*, 1875; XXXV. 560.)
12. Ode read at the Concord Centennial. (Id. 1875; XXXV. 730. Also printed in *Proc. at Centennial Celebration of Concord Fight*, April 19, 1875, 82. Also in *Three Memorial Poems*.)
13. Sonnets from Over Sea. (*Atlantic Monthly*, July, 1875; XXXVI. 37.)
14. Under the Great Elm. Poem read at Cambridge on the Hundredth Anniversary of Washington's Taking Command of the American Army. (*Atlantic Monthly*, Aug. 1875; XXXVI. 221. Also in *Cambridge in the Centennial*, 27. Cambridge, 1875. Also in *Three Memorial Poems*.)
15. An Ode for the Fourth of July, 1876. (*Atlantic Monthly*, Dec. 1876; XXXVIII. 740. Also in *Three Memorial Poems*.)

16. Among My Books. 2d Series. Boston, 1876. 12°.
 17. Poetical Works. Boston, 1877. 8°.
 18. Three Memorial Poems. Boston, 1877. [The three Centennial Poems.]
- *.* Various minor articles in prose and verse.

Theodore Lyman.

Assistant in Zoölogy, 1860—

1. Papers relating to the Garrison Mob. 1870. 8°.
 2. Note sur les Ophiurides et Euryales du Musée d'Histoire Naturelle de Paris. (*Annales des Sciences Naturelles: Zoologie*, 5^e Sér. XVI. Paris, 1872. Also printed separately.)
 3. Mode of Forking among Astrophytions. (*Proc. Boston Soc. Nat. Hist.* March, 1877; XIX. 102.)
 4. The Annual Reports of the Commissioners on Inland Fisheries of Massachusetts from 1865 to 1880 have been wholly or in part written by Mr. Lyman.
- *.* See also the Publications of the Museum of Comparative Zoölogy.

George Augustus Maack.

Assistant in Palæontology, 1869—1874.

- *.* See the Reports of the Museum of Comparative Zoölogy.

Charles Frederic Mabery.

Assistant in Chemistry, 1876—

- *.* See Henry B. Hill and Charles L. Jackson.

John McCrady.

Assistant in Zoölogy, 1872—1874; Professor of Zoölogy, 1874—1877.

- *.* See the Reports of the Museum of Comparative Zoölogy.

Edward Laurens Mark.

Instructor in Zoölogy, 1877—

1. The Nervous System of Phylloxera. (*Psyche*, Jan. 1879; II. 201.)
2. On Early Stages in the Embryology of *Limax campestris*. (*Zoologischer Anzeiger*, Sept. 1879; II. 493. Leipzig, 1879.)

Charles Sedgwick Minot.

Lecturer on Embryology, 1880—

1. Human Growth. (*Boston Med. and Surg. Journal*, July, 1880; CIII. 79.)
2. On the Conditions to be filled by a Theory of Life. (*Proc. Am. Assoc. for Advancement of Science*, Aug. 1879; XXVIII. 411. Salem, 1880.)

Francis Minot.

Assistant Professor of the Theory and Practice of Medicine, and Clinical Lecturer on the Diseases of Women and Children, 1871—1874; Hersey Professor of the Theory and Practice of Physic, 1874—

1. Fatal Hæmatemesis from Cirrhosis of the Liver. (*Boston Med. and Surg. Journal*, April, 1872; LXXXVI. 213.)
2. Does the Inhalation of Ether promote Post-Partum Hæmorrhage? (Id. April, 1876; XCIV. 469.)
3. Hints in Ethics and Hygiene. Annual Address before the Mass. Med. Society, June 12, 1878. (*Med. Communications of Mass. Med. Soc.* XII. 137. Abstract in *Boston Med. and Surg. Journal*, June, 1878; XCVIII. 755.)
4. Case of supposed Acute Tuberculosis resembling Typhoid Fever. (*Boston Med. and Surg. Journal*, April, 1879; C. 567.)
5. Rapid Pulse and High Temperature as Symptoms of Puerperal Inflammation. (Id. Feb. 1880; CII. 177.)
6. Cases of Acute Pneumonia. (Id. Sept. 1880; CIII. 228.)

George Tufton Moffatt.

Professor of Operative Dentistry, 1868—1879.

1. Dental Eclecticism. (*Trans. New York Odontological Soc.*, Dec. 1874, 153. Phila., 1875.)
2. A History of Dental and Oral Science in America. 1876.

Charles Herbert Moore.

Instructor in Drawing and Principles of Design, 1871—

1. Catalogue, with Notes, of Studies, and Fac-Similes from Examples of the Works of Florence and Venice; and of Fac-Similes and Original Studies to be used as Exercises in Drawing, belonging to the Fine Arts Department of Harvard University. Cambridge, 1878.
2. Various newspaper and magazine articles.

Edward Sylvester Morse.

University Lecturer on Brachiopoda, 1872—1873.

1. On the Oviducts and Embryology of Terebratulina. (*Am. Journal of Science and Arts*, Oct. 1872; 3d Ser. IV. 262.)
2. On the Systematic Position of the Brachiopoda. (*Proc. Boston Soc. Nat. Hist.*, March, 1873; XV. 315.)

Charles Edward Munroe.

Assistant in Chemistry, 1871—1874.

1. On the Estimation of Phosphoric Acid. (*Am. Journal of Science and Arts*, May, 1871; 3d Ser. I. 1. Also printed separately.)

2. On the Use of Porous Cones in Filtration. (Id. .)

3. The Action of Vegetable Acids on Tin. (*Report of Am. Public Health Assoc.*, 1879.)

* In Prof. Cooke's paper in *Proc. Am. Acad.*, IX. 40, Mr. Munroe prepared the analyses of Sterlingite and Hallite. In Mr. Hill's article on the Adulterations and Impurities of Food (*Mass. State Bd. of Health Reports* for 1872 and 1873) he furnished the determinations of lead and sulphuric acid in vinegars, and that of lead in colored confectionery. In the *Official Report of the Mass. State Board of Health*, in the case of *Tyler et al. vs. Squire et al.*, he furnished testimony as a chemist.

Simon Newcomb.

Lecturer on Political Economy, 1879-1880.

1. The Standard of Value. (*North American Review*, Sept. 1879; CXXIX. 223.)
2. Our Political Dangers. (Id. March, 1880; CXXX. 261.)
3. The Organization of Labor. I. The Organizer as a Producer. (*Princeton Review*, May, 1880.)
4. The Principles of Taxation. (*North Am. Review*, Aug. 1880; CXXXI. 142.)
5. The Organization of Labor. II. The Interest of the Laborer in Production. (*Princeton Review*, Sept. 1880.)

Charles Eliot Norton.

Professor of the History of Art, 1875- .

1. Philosophical Discussions. By Chauncey Wright. With a Biographical Sketch of the Author by C. E. Norton. New York, 1877. 80.
2. Historical Studies of Church-Building in the Middle Ages: Venice, Siena, Florence. New York, 1880. 80.

* See also the Bulletin of the Library.

Joseph Pearson Oliver.

Clinical Lecturer on the Diseases of Children, 1875- .

1. On the Treatment of Chronic Diarrhoea in Young Children. (*Boston Med. and Surg. Journal*, July, 1875; XCIII. 32.)
2. Clinical Lecture on Chronic Gastroduodenal Catarrh in Children. (Id. March, 1879; C. 345.)

John Knowles Paine.

Instructor in Music, 1862-1873; *Assistant Professor of Music*, 1873-1875; *Professor of Music*, 1875- .

1. St. Peter; An Oratorio. Boston [1872]. 80.
2. Centennial Hymn. For Chorus and Orchestra. 1876.
3. Symphonie: Im Frühling. (No. 2 in A.) Für Grosses Orchester. Boston, 1880. 40.
4. Four Characteristic Pieces. For Piano-Forte.
5. In the Country: 12 Pieces for Piano-Forte.
6. Four Songs.
7. Concert Variations in the Austrian Hymn for the Organ.

Andrew Preston Peabody.

Preacher to the University and Plummer Professor of Christian Morals, 1860-1881.

1. The Sovereignty of Law. (*Boston Lectures*, 1870: *Christianity and Scepticism*, 181. Boston [1870].)
2. Manners. An Address delivered before the Abbot Academy, Andover, and elsewhere. Boston and Cambridge, 1870.
3. Progress in Christ, not beyond Christ. A Sermon at the Installation of A. J. Rich, at Brookfield. Springfield, 1870. pp. 38.
4. The Bible in Public Schools. A Lecture before the American Institute of Instruction. 1871. 120.
5. The Relations of Ethics and Theology. An Address before the Literary Society of Beloit College. 1871. Also in *Christianity and Modern Thought*, [published by Am. Unit. Assoc.] 207. Boston, 1872.
6. The Study of Words. A Lecture before the State Educational Convention, Madison, Wisconsin. 1871.
7. Memoir of Rev. Charles Burroughs, D.D. (*Proc. New Hampshire Hist. Soc.* Also printed separately, Cambridge, 1871. 160. pp. 39.)
8. Memoir of Alvan Lamson. (*Proc. Mass. Hist. Soc. for 1869-1870*, 258. Boston, 1871.)
9. Memoir of Elbridge Jefferson Cutler. Cambridge, 1872. pp. 33.
10. The Rights and Dangers of Property. A Sermon delivered at the Annual Election, Jan. 3, 1872. Boston, 1872.
11. Union in Diversity. Sermon before the Convention of Congregational Ministers, May 30, 1872. Boston, 1872.
12. The Testimony of the Apostles. (*Boston Lectures*, 1872.)
13. Classical Culture and Phillips Exeter Academy. Address at the Dedication of the new Academy Building. Cambridge, 1872.
14. Manual of Moral Philosophy. New York and Chicago. 1873. 160.
15. The Gospel in Bible Lands. (*New Englander*, April, 1873; XXXII. 243.)
16. The Scientific Education of Mechanics and Artizans. Address at the Commencement of the Worcester Free Institute of Industrial Science. Washington, 1873.
17. Christianity and Science. A Series of Lectures delivered in New York in 1874, on the Ely Foundation of the Union Theological Seminary. New York, 1874. 120.
18. Fires in American Cities. (*International Review*, Jan. 1874; I. 17.)
19. Lessons for Our Times from the Life of Washington. Address before the Boston Young Men's Christian Union. Boston, 1874.
20. The Elective System in Colleges. A paper read before the National Educational Association, Detroit, Aug. 1874. Worcester, 1874.
21. Memoir of Mrs. Sarah Farrar. (*Lee's Memoir of Timothy Farrar*, 23. Boston, 1875.)
22. Christian Belief and Life. Boston, 1875. 120.
23. Judge Farrar's Manual of the Constitution of the United States. (*New Englander*, July, 1875; XXXIV. 498.)

24. Oration on the One Hundredth Anniversary of Washington's Taking Command of the Continental Army. 1875.
25. A Century of the Common Schools of New England. An Address delivered at the Annual Convention of Teachers. Boston, 1876.
26. "Established in the Faith." Sermon at the Ordination of Rev. Pitt Dillingham at Charlestown. 1876.
27. The Three Eras of the Positive Philosophy. Oration before the Adelpic Union of Williams College, July 2, 1877. Boston, 1877.
28. Sermon in Commemoration of the Founders of Nahant Church. Cambridge, 1877.
29. The Relation of Morality to Religion. (*International Review*, March, 1878; V. 230.)
30. Science and Revelation. (*Princeton Review*, May, 1878, 760.)
31. Memoir of Emory Washburn. (*Proc. Mass. Hist. Soc.* 1879-1880; XVII. 23. Boston, 1879.)
32. Memoir of Nathan Dane. (Id. 1835-1855, 6.)
33. Discourse on the Being and Attributes of God. One of Seven Discourses at the Unitarian Church in Washington. 1879.
34. The Unpardonable Sin. Tract of the American Unitarian Assoc. 1879.
35. The Divine Humanity of Christ. Sermon at the Installation of Rev. C. A. Allen at Brunswick, Me. 1879.
36. The Voting of Women in School Elections. A Paper read before the Social Science Association. 1879.
37. The Religious Aspects of the Logic of Chance and Probability. (*Princeton Review*, March, 1880, 303.)
38. Christianity the Absolute Religion. A Sermon before the Convention of Congregational Ministers. 1880.
39. Baccalaureate Sermons, one each year, 1871-1880.

. Many other articles, sermons, etc.

Francis Parkman.

Professor of Horticulture, 1871-1872.

. See the Bulletin of the Bussey Institution.

Benjamin Peirce.

Perkins Professor of Astronomy and Mathematics, 1842-1880.

1. Linear Associative Algebra. [Lithographed.] Washington, 1870, pp. 153. 4°.
2. Observation of the Solar Eclipse of Dec. 22, 1870, at Catania. (*Am. Journ. Science and Arts*, 1871; 3d Ser. I. 155.)
3. On the Mean Motions of the Four Outer Planets. (Id. Jan. 1872; 3d Ser. III. 67.)
4. Reports of the Superintendent of the U. S. Coast Survey, showing the Progress of the Survey for the years 1870-73 inclusive. Washington, 1873-75. 4°. Also various appendices.
5. Ocean Lanes for Steamships. Read May 12, 1874. (*Proc. Am. Acad. of Arts and Sciences*, IX. 228.)

6. On the Uses and Transformations of Linear Algebra. Presented May 11, 1875. (Id. X. 395.)
7. Probabilities at the Three-ball Game of Billiards. Read Oct. 10, 1877. (Id. XIII. 141.)
8. On Peirce's Criterion for the Rejection of Doubtful Observations. Dec. 1877. (Id. XIII. 348.)
9. "Qualitative Algebra." (*Johnson's New Universal Cyclopaedia*, III. 1487. New York, 1877.)
10. Propositions in Cosmical Physics. Oct. 8, 1879. (*Proc. Am. Acad.* XV. 201.)
11. The Intellectual Organization of Harvard University. (*Harvard Register*, April, 1880; I. 77.)
12. Various Questions in the *Mathematical Visitor*. Erie, Pa.

Benjamin Osgood Peirce.

Assistant in the Physical Laboratory, 1876-1877.

1. On a New Method of comparing the Electromotive Forces of Two Batteries and measuring their Internal Resistance. Presented March 14, 1877. (*Proc. Am. Acad. of Arts and Sciences*, XII. 137.)
2. On a New Method of measuring the Resistance of a Galvanic Battery. March 14, 1877. (Id. XII. 140.)
3. Note on the Determination of the Law of Propagation of Heat in the Interior of a Solid Body. April 11, 1877. (Id. XII. 143.)
4. (With E. B. Lefavour.) Preliminary Work on the Determination of the Law of Propagation of Heat in the Interior of Solid Bodies. Oct. 10, 1877. (Id. XIII. 128.)
5. Ueber die Emissionsspectra der Haloidverbindungen des Quecksilbers. (*Annalen der Physik und Chemie*, 1879. Neue Folge, VI. Also in pamphlet.)
6. Ueber die Electromotorischen Kräfte von Gaselementen. Leipzig, 1879. pp. 24.

Charles Sanders Peirce.

. See the Annals of the Astronomical Observatory.

James Mills Peirce.

University Professor of Mathematics, 1869-

1. Three and Four Place Tables of Logarithmic and Trigonometric Functions. Boston, 1871. 4°. pp. 16.
2. The Elements of Logarithms; with an Explanation of the Three and Four Place Tables of Logarithmic and Trigonometric Functions. Boston, 1873. 12°.
3. "Quaternions." (*Johnson's New Universal Cyclopaedia*, III. 1491. New York, 1877.)
4. Mathematical Tables, chiefly to Four Figures. First Series. Boston, 1879. 8°. pp. 45.
5. Review of Byerly's Differential Calculus. (*Harvard Register*, Feb. 1880; I. 45.)
5. Review of Rice's Differential Calculus. (Id. May, 1880; I. 103.)

. See also the Bulletin of the Library.

Charles Callahan Perkins.

University Lecturer on the History of the Fine Arts, 1869-1875.

1. American Art Museums. Boston, 1870. 80. pp. 10.
2. Art in Education. Reprinted from the Second Volume of the Journal of the American Social Science Association. New York, 1870. pp. 6.
3. Raphael and Michelangelo: a Critical and Biographical Essay. Boston, 1878. 80.

John Bulkley Perry.

University Lecturer on Geology, 1869-1872.

1. A Discussion of Sundry Objections to Geology. (*Congregational Quarterly*, April, 1870; XII. 217. Also printed separately, Cambridge, 1870. 80.)
2. On the Glacial Period in New England. (*Proc. Boston Soc. Nat. Hist.*, Dec. 1870; XIV. 62.)
3. [Remarks on the] Objections made by Dr. Jackson [to the Glacier Theory]. (Id. Dec. 1870; XIV. 68.)
4. The Eozoon Limestones of Eastern Massachusetts. (Id. April, 1871; XIV. 199.)
5. Hints towards the Post-Tertiary History of New England from Personal Study of the Rocks, with Strictures on Dana's History of the New Haven Region. (Id. Feb. 1872; XV. 48.)
6. Lyell's Student's Elements of Geology. (*Bibliotheca Sacra*, July, 1872; XXIX. 479. Also printed separately, Andover, 1872.)

. See also the Reports of the Museum of Comparative Zoology.

Thomas Sergeant Perry.

Tutor in Modern Languages, 1868-1872; Instructor in English, 1877-1880.

1. American Novels. (*North American Review*, Oct. 1872; CXV. 366.)
2. Mr. Edward Fitzgerald's Translations. (*Atlantic Monthly*, June, 1877; XXXIX. 730.)
3. German Influence on English Literature. (*Atlantic Monthly*, Aug. 1877; XL. 129.)
4. Ouida's Novels. (*Lippincott's Magazine*, Dec. 1877; XX. 732.)
5. Doudan. (*Atlantic Monthly*, June, 1878; XLI. 681.)
6. Some French Novels. (Id. Sept. 1878; XLII. 296.)
7. Alfred de Musset. (*N. Am. Rev.*, Sept.-Oct. 1878; CXXVII. 288.)
8. Recent French and German Essays. (*Atlantic Monthly*, Aug. 1879; XLIV. 230.)
9. Recent Criticism of Byron. (*International Review*, Sept. 1879; VII. 282.)
10. Mountains in Literature. (*Atlantic Monthly*, Sept. 1879; XLIV. 302.)
11. Zola's Last Novel. (Id. May, 1880; XLV. 693.)
12. Sir Walter Scott. (Id. Sept. 1880; XLVI. 313.)

William Henry Pettee.

Instructor in Mining, 1869-1871; Assistant Professor of Mining, 1871-1875.

1. Contributions to Barometric Hypsometry: with Tables for Use in California. [Cambridge] 1874. 40. pp. 88. (*Geol. Survey of California*.)

. See the University Publications.

Edward Charles Pickering.

Director of the Observatory, Phillips Professor of Astronomy, and Professor of Geodesy, 1876-.

1. Annual Address of the President of the Appalachian Club. (*Appalachia*, March, 1877; I. 63.)
2. Mt. Liberty. (Id. March, 1877; I. 122.)
3. The Micrometer Level. (Id. June, 1877; I. 138.)
4. Address of the Vice-President, Section A. (*Proc. Am. Assoc. for Advancement of Science*, Aug. 1877; XXVI. 63. Salem, 1878.)
5. Observations of the Satellites of Mars, and Miscellaneous Observations of Double Stars. [L. Waldo, observer.] (*Astronomische Nachrichten*, XCII. 87, 94. Kiel, 1878. 40.)
6. Observations of Minor Planets. [W. Upton and W. A. Rogers, observers.] (Id. XCIII. 171. Kiel, 1878. 40.)
7. The Cosine Galvanometer. (*Nature*, Jan. 1879; XIX. 217.)
8. Stellar Magnitudes. (*Astronomische Nachrichten*, XC.V. 29. *Nature*, May, 1879; XX. 14. *Astronomical Register*, XVII. 175.)
9. Observations of Comet c 1879. [O. C. Wendell, observer.] (*Astron. Nachrichten*, XCVI. 21.)
10. Observations of the Satellites of Mars. [E. C. Pickering, O. C. Wendell, A. Searle, and F. Waldo, observers.] (Id. XCVII. 115, 145.)
11. Light of Webb's Planetary Nebula. (*Nature*, Feb. 1880; XXI. 346.)
12. Dimensions of the Fixed Stars, with especial reference to Binaries and Variables of the Algol Type. (*Proc. Am. Acad. of Arts and Sciences*, June, 1880; XVI. 1.)
13. Two New Planetary Nebulæ. (*Nature*, Aug. 1880; XXII. 327.)
14. Novel Celestial Object. (Id. Sept. 1880; XXII. 483.)

. See also the publications of the Astronomical Observatory.

Charles Burnham Porter.

Demonstrator in Anatomy and Instructor in Surgery, 1869-1880.

1. (With Dr. W. L. Richardson.) Two Cases of Congenital Dislocation of the Knee Joint. (*Boston Med. and Surg. Journal*, Sept. 1875; XCIII. 321.)
2. Cases of Plastic Surgery. (Id. April, 1878; XCVIII. 423.)
3. Diffused Popliteal Aneurism. Syme's Operation. Secondary Hæmorrhage. Ligature of Femoral Artery. Tetanus. Recovery. Operations by

C. B. Porter, Surgeon Mass. General Hospital. Subsequent Cure and Report by Asst. Surgeon S. Q. Robinson. (*American Journal of Medical Sciences*, LXXII. 128.)

4. Clinical Reports Mass. General Hospital. Strangulated Hernia. Kelotomy and Operation for Radical Cure. Radical Cure of Varicocele. Division of Ulnar Nerve by Stab Wound. Cases of C. B. Porter. Reported by J. F. Bush, M.D. (*New York Medical Journal*, XXXIII. 366.)

Louis François de Pourtalès.

Assistant in Zoölogy, 1873-1880.

1. Der Boden des Golfstromes und der atlantischen Küste Nord-Amerika's. (Petermann's *Geographische Mittheilungen*, Nov. 1870; XVI. 393.)
 2. "Atlantic Ocean." (Appleton's *American Encyclopedia*, II. New York, 1873-1876.)
 3. "Dredging (Deep-Sea)." (Id. VI.)
 4. "Galapagos." (Id. VII.)
 5. "Indian Ocean." (Id. IX.)
 6. "Juan Fernandez." (Id. IX.)
 7. "Magellan, Straits of." (Id. X.)
 8. "Mediterranean Sea." (Id. XI.)
 9. "Pacific Ocean." (Id. XII.)
 10. "Polar Seas (Geography)." (Id. XIII.)
 11. Corals at the Galapagos Islands. (*Am. Journal of Science and Arts*, Oct. 1875; 3d Ser. X. 282.)
- * See also the Publications of the Museum of Comparative Zoölogy.

Raphael Pumpelly.

Professor of Mining, 1866-1875.

1. The Paragenesis and Derivation of Copper and its Associates on Lake Superior. (*Am. Journal of Science and Arts*, Sept. 1871; 3d Ser. II. 188, 243, 347.)
2. (With T. B. Brooks.) On the Age of the Copper-Bearing Rocks of Lake Superior. (Id. June, 1872; 3d Ser. III. 428.)
3. (With T. B. Brooks and C. Rominger.) Geological Survey of Michigan. Upper Peninsula. New York, 1873. [Vol. I. Pt. II. Chapters 1, 2, 3, 5, 6 by Raphael Pumpelly.]
4. (With T. B. Brooks and A. Schmidt.) Iron Ores of Missouri and Michigan. [Pt. I., Geology of Pilot Knob and its Vicinity, by R. Pumpelly.]
5. Geological Survey of Missouri, R. Pumpelly, Director. Preliminary Report on the Iron Ores and Coal Fields. New York, 1873. [Notes on the Geology of Pilot Knob and its Vicinity, by R. Pumpelly.]
6. On Pseudomorphs of Chlorite after Garnet at the Spurr Mountain Iron Mine, Lake Superior. (*Am. Journal of Science and Arts*, July, 1875; 3d Ser. X. 17.)
7. Lithology of the Keweenaw System. (*Chamberlin's Geology of Wisconsin Survey of 1873-1879*; III. 27.)

Frederick Ward Putnam.

Curator of the Peabody Museum of American Archaeology and Ethnology, 1874-

1. Notes on Myxinidae. (*Proc. Boston Society Natural History*, 1874; XVI. 127.)

2. Notes on Ophidiidae and Fierasferidae, with Descriptions of New Species from America and the Mediterranean. (Id. 1874; XVI. 339.)
3. Remarks on the Family Nemophidae. (Id. 1874; XVI. 366.)
4. Description of Living Specimens of Fishes and Cray Fishes from Mammoth Cave. (Id. Dec. 1874; XVII. 222.)
5. Account of Rare and Interesting Fishes from the Waters of Essex County, Mass. (*Bulletin Essex Inst.*, Jan. 1874; VI. 11.)
6. Indian Remains from Essex County, Mass. (Id. Feb. 1874; VI. 17.)
7. Description of a Blackfish, *Globocephalus*, shot in Salem Harbor. (Id. Feb. 1874; VI. 22.)
8. Remarks on the Mammoth Cave and some of its Animals. (*Bulletin Essex Institute*, Dec. 1874; VI. 191.)
9. *Gobiosoma Molestum* from the Ohio River. (*American Naturalist*, 1874; VIII. 233.)
10. (With S. Garman.) On the Male and Female Organs of the Sharks and Skates, with special reference to the use of the "Claspers." (*Proc. Am. Assoc. for Advancement of Science*, Aug. 1874; XXIII. B. 143, Salem, 1875.)
11. On the Anderson School of Natural History at Penikese. (Id. 144. Salem, 1875.)
12. Description of a Collection of Pottery and other Objects from Mounds near New Madrid, Missouri. Illustrated. (*Eighth Report, Peabody Museum*, 1875. p. 16.)
13. Archæological Researches in Kentucky and Indiana. (*Proc. Boston Soc. Nat. Hist.* Jan. 1875; XVII. 314.)
14. Archæological Researches in Kentucky. (*Bulletin Essex Institute*, Jan. 1875; VII. 2.)
15. Notice of Jeffries Wyman. (*Proc. Am. Acad. of Arts and Sciences*, May, 1875; X. 496.)
16. On Some of the Habits of the Blind Crawfish, *Cambarus pellucidus*, and the Reproduction of Lost Parts. (*Proc. Boston Soc. Nat. Hist.* May, 1875; XVIII. 16.)
17. On some Curious Groups of Stones found near Newburyport. (*Bulletin Essex Institute*, July, 1875; VII. 106.)
18. Petition to the Legislature of Massachusetts for a Scientific Survey of the Commonwealth. (*Mass. House Documents* [1875]. No. 184, p. 5.)
19. On the Ancient Peruvians. (*Bulletin Essex Inst.* March, April, May, 1876; VIII. 34.)
20. The Development of the Ceramic Art and Ornamentation among the American Nations. (Id. April, May, June, 1877; IX. 77.)
21. Notice of an Interesting Relic of Mexican Sculpture. (Id. April, May, June, 1877; IX. 69.)
22. Ancient American Pottery; A Criticism of the Chapter in Mr. Prime's Work on Pottery and Porcelain. (*The Nation*, Jan. 3, 1878.)
23. Archæological Explorations in Tennessee. Illustrated. (*Eleventh Report, Peabody Museum*, 1878, 361. — Reprinted in *Supplement Scientific American*, 1878, and in *Kansas City Review of Science and Industry*, June - Sept. 1879.)
24. Archæological Explorations in Tennessee. With illustrations. (*Bulletin Essex Institute*, April, May, June, 1878; X. 72.)

25. On the Discovery of Chambered Mounds in Missouri. (*Proc. Bos. Soc. Nat. Hist.*, Oct. 1879; XX. 304.)
26. On a Skeleton of an Indian from Massachusetts. (Id. Nov. 1879; XX. 331.)
27. Ancient Mounds and Burial Places, Cumberland Valley, Tennessee. (Id. Nov. 1879; XX. 332.)
28. Conventionalism in Pottery. (Id. Dec. 1879; XX. 333.)
29. Reports upon Archæological and Ethnological Collections from vicinity of Santa Barbara, California, and from ruined Pueblos of Arizona and New Mexico, and Certain Interior Tribes. (*Report upon U. S. Geographical and Geological Surveys West of the One Hundredth Meridian*, VII. Archæology, 1879.)
30. "Egyptian Antiquities" found in America. Illustrated. (*American Art Review*, April, 1880; I. 254.)
31. Account of Cahokia Mound. Illustrated. (*Twelfth Report, Peabody Museum*, 1880, 470.)
32. The Indians of California. (*Bulletin Essex Institute*, Jan. — June, 1880; XII. 4.)
33. Editorship of *Proceedings of American Association for Advancement of Science*, XXII—XXVIII. 1873–1879.
34. Editorship of *Annual Reports of Trustees of Peabody Museum of Archæology and Ethnology*, VIII.—XIII. 1875–1880.
35. Editorship (with others) of *American Naturalist*, I.—VIII. 1868–1874.
9. (With O. F. Wadsworth, M.D.) Intra-Ocular Circulation: Rhythmical Changes in the Venous Pulse of the Optic Disk. (Id. Oct. 1878; V. 690.)
10. The Physiological Pathology of the Hydrophobic Paroxysm. (*Boston Med. and Surg. Journal*, Nov. 1878; XCIX. 650.)
11. A Contribution to our Knowledge of the Cutaneous Distribution of the Brachial and Cervical Plexuses. (Id. Jan. 1879; C. 118.)
12. Description of a Modified Pendulum-Myograph. (*Journal of Physiology* [London], Sept. 1879; II. 206.)
13. On the Reliability of Marey's Tambour in Experiments requiring Accurate Notations of Time. (Id. Sept. 1879; II. 209.)
14. Two Cases of Chorea in the Kitten, with Autopsies. (*Bost. Med. and Surg. Journal*, Nov. 1879; CI. 690.)
15. Case of Chronic Facial Spasm, successfully treated by stretching the Seventh Nerve. (*Trans. of the American Neurological Assoc. in the Chicago Journal of Nervous and Mental Disease*, July, 1880; VII. 486. Published in extenso in *Archives of Medicine*, Feb. 1881.)
16. A Series of Cases of Paræsthesia mainly of the Hands, of Periodical Recurrence, and possibly of Vaso-motor Origin. (*New York Archives of Medicine*, 1880.)
17. Article on Vaso-motor and Trophic Neuroses. (*Ziemssen's Cyclopædia of Medicine*. Am. ed.)

*. See also the Reports of the Peabody Museum and the Bulletin and Reports of the Museum of Comparative Zoölogy. Such of Mr. Putnam's official papers as have been reprinted are repeated above; also a few, embraced in his general reports are here repeated with definite titles.

James Jackson Putnam.

Instructor in Diseases of the Nervous System, 1875—

1. Case of Circumscribed Analgesia of the Arm after Typhoid Fever. (*Chicago Journal of Nervous and Mental Disease*, July, 1875; II. 385.)
2. Case of Menière's Disease. (*Boston Med. and Surg. Journal*, Nov. 1875; XCIII. 554.)
3. Experimental Criticism of a Recent Theory of Phosphorus Poisoning. (Id. March, 1876; XCIV. 296.)
4. Physical Exercise for the Sick. (Id. Sept. 1876; XCV. 371.)
5. Ziemssen's Cyclopædia of Medicine. American Edition. The following articles were contributed by Dr. Putnam. 1876. Anæmia, Hyperæmia, Thrombosis, Embolism, and Hæmorrhage of the Brain.
6. Case of Section of the Median and Ulnar Nerves. (*Boston Med. and Surg. Journal*, March, 1877; XCVI. 333.)
7. Modification of Barwell's Elastic Muscle Apparatus. (Id. May, 1878; XCVIII. 701.)
8. Case of Cutaneous Disease, confined to the Palmar Surface of the Thumb, successfully treated by Section of the Filaments of Median Nerve. (*Chicago Journal of Nervous and Mental Disease*, July, 1878; V. 465.)

John Phillips Reynolds.

Instructor in Obstetrics and Medical Jurisprudence, 1869–1877; *Professor of Obstetrics*, 1877—

1. Dr. Uvedale West's Views of Rotation. (*Trans. Am. Gynecological Soc.* II.)

George Riddle.

Instructor in Elocution, 1878—

1. Elocution at Harvard. (*Harvard Register*, Aug. 1880; II. 159.)

William Augustus Rogers.

Assistant in the Observatory, 1870–1877; *Assistant Professor of Astronomy*. 1877—

1. Ephemeris of Felicitas for Opposition, 1873. (*Astronomische Nachrichten*, LXXXII. 157. Kiel, 1873.)
2. Elements of Felicitas (109). (Id. LXXXIV. 161. Kiel, 1874.)
3. On the Periodic Errors of the Right Ascension observed between 1858 and 1871. Read, April 14, 1874. (*Proc. Am. Acad. of Arts and Sciences*, IX. 127.)
4. New Elements of Brunhild (123), with Ephemeris for the Opposition, 1875. (*Astronomische Nachrichten*, LXXXV. 241. Kiel, 1875.)
5. Death of Professor Joseph Winlock, Director of Harvard College Observatory. (Id. LXXXVI. 113. Kiel, 1875.)

6. Places of Comparison Stars adopted from observations. (Id. LXXXVI. 173. Kiel, 1875.)
7. On a possible Explanation of the Method Employed by Nobert in Ruling his Test Plates. Presented June 9, 1875. (*Proc. Am. Acad. of Arts and Sciences*, XI. 237.)
8. Eight Ascensions of the Fundamental Stars observed with the Meridian Circle of Harvard College Observatory during the years 1872-73. (*Astronomische Nachrichten*, LXXXVII. 65. Kiel, 1876.)
9. New Elements and Ephemeris of (123) Brunhild. (Id. LXXXVIII. 223. Kiel, 1876.)
10. New Elements of Iphigenia (117) from the Opposition Observations of 1870, 1872, 1873, 1877. (Id. XCI. 107. Kiel, 1878.)
11. On Standard Measures of Length. (*Am. Quarterly Microscopical Journal*, Jan. 1879.)
12. On two Forms of Comparators for Measures of Length. (Id. April, 1879.)
13. On the Limits of Accuracy in Measurements with the Telescope and the Microscope. (*Proc. Am. Acad. of Arts and Sciences*, XIV. 168.)
14. On the First Results from a new Diffraction Ruling Engine. (*Am. Journal of Science and Arts*, Jan. 1880; 3d Ser. XIX. 54.)
15. On the Present State of the Question of Standards of Length. Presented April 14, 1880. (*Proc. Am. Acad. of Arts and Sciences*, XV. 273.)
16. On Tolles's Interior Illuminator for Opaque Objects. (*Journal of Royal Microscopical Society*, III. 754.)
17. The Co-efficient of Safety in Navigation. (Read before the Naval Institute at Annapolis, and printed in *Science*, II. 171.)

. See also the Annals of the Astronomical Observatory.

Thomas Morgan Rotch.

Clinical Instructor in the Diseases of Children, 1878—.

1. Absence of Resonance in the Fifth Right Inter-costal Space diagnostic of Pericardial Effusion. (*Med. Communications Mass. Med. Soc.* XII. 235. Boston, 1878. Also *Boston Med. and Surg. Journal*, Sept. and Oct. 1878; XCIX. 389, 421.)
2. Reports of the Suffolk District Medical Society. T. M. Rotch Secretary. (*Boston Med. and Surg. Journal*, 1879-80.)

Orestes St. John.

Assistant in Paleontology, 1873-1874.

. See the Reports of the Museum of Comparative Zoölogy.

Charles Sprague Sargent.

Director of the Arnold Arboretum, 1872—; *Arnold Professor of Arboriculture*, 1879—.

1. A Few Suggestions on Tree Planting in Massachusetts. (*Twenty-third Ann. Report of Secretary of Mass. Board of Agriculture for 1875*, 250. Boston, 1876. Also, enlarged, published by

Mass. Society for Promoting Agriculture in their *Prizes for Arboriculture*, 7. Boston, 1876.)

2. Notes on Trees and Tree Planting. (*Twenty-Fifth Ann. Rep. of Sec. Mass. Bd. of Agriculture for 1877*, 267, Boston, 1878.)
3. The Forests of Central Nevada with some Remarks on those of the Adjacent Regions. (*Am. Journal of Science and Arts*, June, 1879; 3d Ser. XVII. 417. Translated in *Annales des Sciences Naturelles*, and *Nuova Revista Forestale*.)
4. A Catalogue of the Forest Trees of North America. (*Tenth Census of the U. S.* [Department of the Interior.] 1880.)

. See also the Bulletin of the Bussey Institution and the Reports of the Arnold Arboretum.

Samuel Hubbard Scudder.

Assistant Librarian, 1879—.

1. The Fossil Insects collected in 1877 by Mr. G. M. Dawson in the Interior of British Columbia. (*Rep. Progr. Geol. Surv. Canada*, 1877-78. B. 175-185. Montreal, 1879. 8°.)
2. Palaeozoic Cockroaches; a complete Revision of the Species of both Worlds, with an Essay toward their Classification. (*Mem. Boston Soc. Nat. Hist.*, III. 23-134, pl. 2-6. Boston, 1879. 4°.)
3. The Probable Age of Haulover Beach at the head of Nantucket Harbor. (*Proc. Bost. Soc. Nat. Hist.*, Nov. 1879; XX. 329-330. 8°.)
4. A Brief Account of some of the Scientific Institutions of Boston and Vicinity; prepared by the Local Committee of the American Association for the Advancement of Science, for Distribution to Members of the Association at the Boston Meeting, Aug. 1880. Boston, 1880. pp. 27. 8°. [Edited by S. H. Scudder.]
5. Annual Address before the Entomological Club of the American Association for the Advancement of Science. (*Amer. Entom.*, VI. 207-210. New York, 1880. 8°. *Can. Entom.*, XII. 161-167. London [Ont.], 1880. 8°. *Nature*, Oct. 1880; XXII. 550-551. *Ann. Rep. Entom. Soc. Ont.*, 1880; 12-15. Toronto, 1881. 8°. *Proc. Amer. Assoc. Adv. Sc.*, XXIX. 605-611. Salem, 1881. 8°. Separate, 9 pp. Salem, 1881.)
6. The Devonian Insects of New Brunswick. (*Anniv. Mem. Bost. Soc. Nat. Hist.*, pp. 41. pl. 1. Boston, 1880. 4°. Extract in *Amer. Jour. Sc. and Arts*, Feb. 1881; 3d Ser. XXI. 111-117. 8°. *Ann. and Mag. Nat. Hist.*, 5th Ser. VII. 255-261. London, 1881. 8°. *Arch. Sc. Phys. Nat.*, March, 1881; 3d Ser. V. 291-293. Genève, 1881. 8°. *Naturforscher*, No. 15, 141-143.
7. Brief Notices: *Psyche*:—*Junonia coenia* in N. England, II. 276-277. The Manner in which *Oecanthus* lays her Eggs, III. 77. The Insect-Basin of Florissant, III. 77. Habits of *Retinia frustrana*, III. 77. *Canadian Entomologist*:—An Insect doing much Damage to the Pines on the Island of Nantucket, XI. 176. A Few Notes on N. American Acridii, XII. 75-76. *Nature*:—An Index to Zoölogical Genera, XX. 551.

. See also the Publications of the Library and the Reports of the Museum of Comparative Zoölogy.

Arthur Searle.*Assistant in the Observatory, 1869-*

1. Outlines of Astronomy. Boston, 1874. [A second edition, with some alterations and additions, 1875.]
 2. Mars as a Neighbor. (*Atlantic Monthly*, Jan. 1878; XLI. 111.)
 3. Newcomb's Popular Astronomy. (*Literary World*, April, 1878; VIII. 190.)
 4. The Convent of the Capuchins. (*Popular Science Monthly*, March, 1880; XVI. 673.)
- See also the Annals of the Astronomical Observatory.

Edwin Pliny Seaver.*Assistant Professor of Mathematics, 1869-1874.*

1. Formulas of Trigonometry.

Nathaniel Southgate Shaler.*Professor of Paleontology, 1869-*

1. Father Blumhardt's Prayerful Hotel. (*Atlantic Monthly*, Dec. 1870; XXVI. 712.)
2. The Effects of Pressure on Rocks. (*Proc. Boston Soc. Nat. Hist.*, Jan. 1872; XV. 2.)
3. Notes on the Origin of our Domestic Cat. (Id. April, 1872; XV. 159.)
4. On the Effects of the Upright Position in Man. (Id. June, 1872; XV. 188.)
5. Notes on the Right and Sperm Whales. (*Am. Naturalist*, Jan. 1873; VII. 1.)
6. The Summer's Journey of a Naturalist. Parts I., II. and III. (*Atlantic Monthly*, June, 1873; XXXI. 707; Aug. 1873; XXXII. 181; Sept. 1873; XXXII. 349.)
7. The Moon. (Id. Sept. 1874; XXXIV. 270.)
8. Martha's Vineyard. (Id. Dec. 1874; XXXIV. 732.)
9. Notes on some of the Phenomena of Elevation and Subsidence of the Continents. (*Proc. Boston Soc. Nat. Hist.*, Dec. 1874; XVII. 288.)
10. Kentucky Geological Survey, N. S. Shaler. Director from 1874 to 1880; Vols. I.-IV. New Series, Reports of Progress. V. and VI. published in part. Memoirs of Survey, I. and II., published in part. Bulletin of Survey, I. Of these all but Vol. III. are by the Director and his assistants; Vol. III. is by himself alone. A good part of the work done remains unpublished.
11. Some Considerations on the possible Means whereby a Warm Climate may be produced within the Arctic Circle. (*Proc. Boston Soc. Nat. Hist.*, Jan. 1875; XVII. 332.)
12. On the Antiquity of Caverns and Cavern Life in the Ohio Valley. (*Memoirs Boston Soc. Nat. Hist.*, Feb. 1875; II. 355.)
13. Note on some Points connected with Tidal Erosion. (*Proc. Boston Soc. Nat. Hist.*, March, 1875; XVII. 465.)

14. A State Survey for Massachusetts. (*Atlantic Monthly*, March, 1875; XXXV. 357.)
15. Note on the Geological Relations of Boston and Narragansett Bays. (*Proc. Boston Soc. Nat. Hist.*, April, 1875; XVII. 488.)
16. Propositions concerning the Motion of Continental Glaciers. (*Proc. Boston Soc. Nat. Hist.*, June, 1875; XVIII. 126.)
17. Notes on the Cause and Geological Value of Variation in Rainfall. (Id. Oct. 1875; XVIII. 176.)
18. North American Climate. (Id. 1875.)
19. A State Survey for Massachusetts. (*Am. Naturalist*, March, 1875; IX. 156.)
20. How to change the North American Climate. (*Atlantic Monthly*, 1877.)
21. Notes on the Age and the Structure of the several Mountain Axes in the Neighborhood of Cumberland Gap. (*Am. Naturalist*, July, 1877; XI. 385.)
22. On the Existence of the Alleghany Division of the Appalachian Range within the Hudson Valley. (Id. Oct. 1877; XI. 627.)
23. The Silver Question geologically considered. (*Atlantic Monthly*, May, 1878; XLI. 620.)
24. Reelfoot Lake. (Id. Aug. 1878; XLII. 216.)
25. Thoughts on the Nature of Intellectual Property and its Importance to the State. Boston, 1878.
26. Notes on certain Evidences of a Gradual Passage from Sedimentary to Volcanic Rocks shown in the Brighton District of Boston. (*Proc. Boston Soc. Nat. Hist.*, Jan. 1879; XX. 129.)
27. The Natural History of Politics. (*Atlantic Monthly*, March, 1879; XLIII. 302.)
28. Notes on the Submarine Coast Shelf or Hundred Fathom Detrital Fringe. (*Proc. Boston Soc. Nat. Hist.*, May, 1879; XX. 278.)
29. The Use of Numbers in Society. (*Atlantic Monthly*, Sept. 1879; XLIV. 326.)
30. Future of Precious Metal Mining in the United States. (*Atlantic Monthly*, June, 1880; XLV. 765.)

•• See also the Bulletin and Reports of the Museum of Comparative Zoology, the Annals of the Astronomical Observatory and the Reports of the Peabody Museum.

Stephen Paschall Sharples.*Assistant in Chemistry, 1869-1871.*

1. On some Rocks and other Dredgings from the Gulf Stream. (*Am. Journal of Science and Arts*, March, 1871; 3d Ser. I. 168.)
2. On some Forms of the Galvanic Battery. (Id. April, 1871; 3d Ser. I. 247.)

Frederick Cheever Shattuck.*Assistant in Clinical Medicine, 1879-*

1. Fibroid Pthisis. (*Boston Med. and Surg. Journal*, March, 1880; CII. 241.)
2. Report on the Progress of Medicine in Diseases of the Lungs, 1873-1880. (*Ziemssen's Cyclopadia of the Practice of Medicine*. Supplement. New York, 1881.)

Edward Stevens Sheldon.*Tutor in German, 1878 - .*

1. A Short German Grammar for High Schools and Colleges. Boston, 1879. 12°.

John Langdon Sibley.*Librarian, 1856-1877; Librarian Emeritus, 1877 - .*

1. Biographical Sketches of Graduates of Harvard University, in Cambridge, Massachusetts, 1642-1658. With an Appendix, containing an Abstract of the Steward's Accounts, and Notices of Non-Graduates from 1649-50 to 1659. Cambridge, 1873. 8°.

. Vol. II. is now in press.

2. Cyrus Eaton. (*Proc. Mass. Hist. Soc.*, Feb. 1875; XIII. 438. Boston, 1875. And [under the title: A Remarkable Self-Made Man] *Unitarian Review*, April, 1875; III. 373.)
3. Address at the Conference of Librarians at Harvard University, 2 July, 1879. (*Library Journal*, July-Aug. 1879; IV. 305.)

. See also the University Publications.

Daniel Denison Slade.*Professor of Applied Zoölogy, 1871 - .*

. See the Bulletin of the Bussey Institution.

Clement Lawrence Smith.*Tutor in Latin, 1870-1873; Assistant Professor of Latin, 1873 - .*

1. On the Use of Language in Education. Address before the Alumni Association of Haverford College, July 1, 1873. Phila. 1873. (Also in the *Friends' Quarterly Examiner*. London, Jan. 1874.)
2. Shall we teach Greek and Latin as Dead Languages? (*The Quaker Alumnus*. Phila. Jan. 1879.)

. See also the University Publications.

Evangelinus Apostolides Sophocles.*University Professor of Ancient, Byzantine, and Modern Greek, 1860 - .*

1. Greek Lexicon of the Roman and Byzantine Periods (from B.C. 146 to A.D. 1100). xvi., 1188. Boston, 1870. 1. 8°.

Oliver Stearns.*Parkman Professor of Theology, 1863-1878.*

1. The Aim and Expectation of Jesus. (*Christianity and Modern Thought*, 271. [Pub. by Am. Unit. Assoc.] Boston, 1872.)
2. The Divinity School of Harvard University. (*The Harvard Book*. Edited by Vaile and Clark. I. 197. Cambridge, 1875. 4°.)

Frank Steindachner.*Assistant in Ichthyology, 1871-1873.*

. See the Reports of the Museum of Comparative Zoölogy.

Francis Humphreys Storer.*Professor of Agricultural Chemistry, 1870 - .*

1. A Cyclopædia of Quantitative Chemical Analysis. Part II. Boston, 1873. 8°.
2. Cherry Blossoms destroyed by Squirrels. (*Nature*, Nov. 1875; XIII. 26.)
3. Ammonia-a Constant Contaminant of Sulphuric Acid. (*Am. Jour. Sci. and Arts*, Dec. 1875; 3d Ser. X. 438.)
4. Schœnbein's Test for Nitrates. (Id. Sept. 1876; 3d Ser. XII. 176.)
5. Note on the Ferment Theory of Nitrification. (Id. June, 1878; 3d Ser. XV. 444.)
6. Epsom Salt *versus* Strawberries. (*Am. Journ. of Pharmacy*, July, 1878; 4th Ser. VIII. 321.)
7. Some of the Uses of Agricultural Study. (*Harvard Register*, Feb. 1880; I. 38.)
8. Reclamation of Bog-Land, by the German Method of Burying with Gravel. (*Rural New Yorker*, Feb. 1880; XXXIX. 101.)
9. Dr. Angus Smith on the Waste of Ammonia in Coke-Making. (Id. Feb. 1880; XXXIX. 120.)
10. Maximum Yield of Wheat. (Id. April, 1880; XXXIX. 246.)
11. Money Value of Leached Ashes. (Id. April, 1880; XXXIX. 262.)
12. Hurtfulness of Chlorides to the Tobacco Crop. (Id. May, 1880; XXXIX. 277.)
13. New Evidence in respect to Weevil-eaten Peas. (Id. May, 1880; XXXIX. 294.)
14. Bone Chewing by Cattle. (Id. May, 1880; XXXIX. 311.)
15. The Agricultural School as a Preparation for the Study of Medicine. (*Harvard Register*, June, 1880; I. 111.)
16. Indian Corn as a Starch Crop. (*Rural New Yorker*, June, 1880; XXXIX. 358.)
17. Deer's Horns eaten by Cattle. (Id. June, 1880; XXXIX. 376.)
18. The So-called Process of Ensilage. (Id. July, 1880; XXXIX. 424.)
19. A Scientific View of Composts. (Id. Aug. 1880; XXXIX. 503, 517, 549.)
20. The Valuation of "Reverted" Phosphoric Acid. (Id. Sept. 1880; XXXIX. 586.)

Several new editions of the following works:—

21. A Manual of Inorganic Chemistry, arranged to facilitate the Experimental Demonstration of the Facts and Principles of the Science. By C. W. Eliot and F. H. Storer. New York. 8°.
22. An Elementary Manual of Chemistry, abridged from Eliot and Storer's Manual, with the Coöperation of the Authors, by W. R. Nichols.
23. A Compendious Manual of Qualitative Chemical Analysis, by C. W. Eliot and F. H. Storer. Revised, with the Coöperation of the Authors, by W. R. Nichols.

. See also the Bulletin of the Bussey Institution.

William Edward Story.*Tutor in Mathematics, 1875-1876.*

1. On the Algebraic Relations existing between the Polars of a Binary Quantic. Leipzig, 1875. pp. 59.

James Bradley Thayer.*Royall Professor of Law, 1873- .*

1. Letters of Chauncey Wright. With some Account of his Life by J. B. Thayer. Privately Printed. Cambridge, 1878. 8°.

Howard Malcom Ticknor.*Instructor in Elocution, 1878- .*

1. On the Status of Elocution in Harvard College. (*Harvard Register*, Sept. 1880; II. 180.)

John Trowbridge.*Assistant Professor of Physics, 1870-1880. Professor of Physics, 1880- .*

1. A New Form of Galvanometer. (*Am. Journ. of Sci. and Arts*, Aug. 1871; 3d Ser. II. 118.)
2. Animal Electricity. Presented Jan. 1872. (*Proc. Am. Acad. of Arts and Sciences*, VIII. 244.)
3. Electromotive Action of Liquids separated by Membranes. (*Am. Journ. of Sci. and Arts*, May, 1872; 3d Ser. III. 342.)
4. On the Electrical Condition of Gas-Flames. (Id. July, 1872; 3d Ser. IV. 4.)
5. Ohm's Law considered from a Geometrical Point of View. (Id. Aug. 1872; 3d Ser. IV. 115.)
6. Induced Currents and Derived Circuits. (Id. May, 1873; 3d Ser. V. 372.)
7. On a Method of Freeing a Magnetic Bar from the Influence of the Earth's Magnetism. (Id. May, 1874; 3d Ser. VII. 490.)
8. On a Molecular Change produced by the Passage of Electrical Currents through Iron and Steel Bars. (Id. July, 1874; 3d Ser. VIII. 18.)
9. On a New Induction-Coil. April, 1875. (*Proc. Am. Acad. of Arts and Sci.*, X. 381.)
10. Construction of Gaugain's Galvanometer. (*Am. Journ. of Sci. and Arts*, May, 1875; 3d Ser. IX. 383.)
11. On the Effect of thin Plates of Iron used as Armatures to Electro-Magnets. Feb. 1876. (*Proc. of Am. Acad. of Arts and Sciences*, XI. 202.)
12. On the So-called Etheric Force. Feb. 1876. (Id. XI. 206.)
13. On a New Form of Mirror-Galvanometer. Feb. 1876. (Id. XI. 208.)
14. On Vortex-Rings in Liquids. March, 1877. (Id. XII. 131.)
15. Methods of measuring Electric Currents of great strength; together with a Comparison of the Wilde, the Gramme, and the Siemen's Machines. Oct. 1878. (Id. XIV. 122.)

16. (With W. N. Hill.) On the Heat produced by the Rapid Magnetization and Demagnetization of the Magnetic Metals. [Preliminary Paper.] Dec. 1878. (Id. XIV. 114.)
17. Simple Apparatus for illustrating Periodic Motion. Dec. 1879. (Id. XV. 232.)
18. Illustration of the Conservation of Energy. Dec. 1879. (Id. XV. 235.)
19. The Study of Physics in the Secondary Schools. (*Popular Science Monthly*, June, 1879, XV. 159.)
20. Superstition and Scientific Training. (*Independent* [N. Y.], July 29, 1880.)
21. The Earth as a Conductor of Electricity. (*Proc. Am. Acad. of Arts and Sciences*, 1880, XVI. 58.)
22. Editorship of Physical Notes in the *Am. Journ. of Science and Arts*, beginning with the year 1879.
23. Supervision of the following Contributions from the Physical Laboratory of Harvard College:—
Demagnetization of Electro-Magnets. By R. W. Willson. (*Am. Journ. of Sci. and Arts*, May, 1872; 3d Ser. III. 346.) On a Method of measuring Induced Currents. By F. H. Bigelow. (Id. May, 1873; 3d Ser. V. 374.) On Methods of determining the Resistance of a Battery. By N. D. C. Hodges. (Id. 375.) A Note on Melde's Experiment on the Vibration of Strings. By W. Lowery. (Id. May, 1874; 3d Ser. VII. 493.) A Spark-Adjuster for the Holtz Machine. By J. J. Minot. (Id. 494.) Effect of Condensers on the Brush Discharge from the Holtz Machine. By J. W. Fewkes. (Id. 496.) Magnetism of Soft Iron. By D. Sears. (Id. July, 1874; 3d Ser. VIII. 21.) Increase of Magnetism in a Bar of Soft Iron upon Reversal of the Magnetizing Current. By W. A. Burnham. (Id. Sept. 1874; 3d Ser. VIII. 202.) Experiments on the Dissipation of Electricity by Flames. By J. W. Fewkes. (Id. 207.) Polarization of the Plates of Condensers. By A. S. Thayer. (Id. 208.) On the Effect of Heat upon the Magnetic Susceptibility of Soft Iron. By H. Amory and F. Minot. (*Proc. Am. Acad. of Arts and Sciences*, X. 308.) On the Effect of Armatures on the Magnetic State of Electro-Magnets. By B. O. Peirce and E. B. Lefavour. (Id. X. 385.) On the Time of Demagnetization of Soft Iron. By W. C. Hodgkins and J. H. Jennings. (Id. 387.) On the Induction-Spark produced in breaking a Galvanic Circuit between the Poles of a Magnet. By B. O. Peirce, Jr. (Id. XI. 218.) Condensers and Geissler Tubes. By W. P. Wilson. (Id. 228.) A New Form of Magneto-Electric Engine. By W. R. Morse. (*Am. Jour. of Sci. and Arts*, May, 1875; 3d Ser. IX. 386.) On the Distribution of Electrical Discharges from Circular Discs. By C. J. Bell. (Id. June, 1875; 3d Ser. IX. 458.) An Application of the Horizontal Pendulum. By H. Amory. (Id. July, 1875; 3d Ser. X. 21.) Distribution of Magnetism on Armatures. By H. Whiting. (*Proc. Am. Acad.* XI. 293.) Change of Electrical Resistance in Wires by stretching. By G. S. Pine. (Id. 303.) On the Intensity of Terrestrial Magnetism at Cambridge. By H. Goldmark. (Id. XIII. 414.) The Effect of Temperature upon Atmospheric Electricity. By H. Goldmark. (*Am. Jour. of Sci. and Arts*, July, 1878; 3d Ser. XVI. 52.) A New Method of studying Wave Motion. By H. H. Eustis. (*Proc. Am. Acad.* XV. 218.) Vibration of Circular and Elliptical Plates. By

F. E. Cabot. (Id. 219.) Perforated Vibrating Discs. By F. E. Cabot. (Id. XV. 222.) Effect of Distance on Appreciation of Color. By W. H. Schwartz. (Id. 229.) The Magnetic Moment of Fleitman's Nickel. By J. E. Bullard. (Id. XVI. 46.) Thermal Conductivity of Glass and Sand. By C. B. Penrose. (Id. XVI. 47.) Effect of the Tension of Membranes on Sound. By G. F. Hartshorn. (Id. XVI. 56.) A Phenomenon of Electrical Convection. By J. J. Greenough. (Id. XVI. 58.)

* See also the Bulletin of the Library.

Winslow Upton.

Assistant in the Observatory, 1877-1879.

1. Determination of the Orbit of (185) Eunike. (*Astronomische Nachrichten*, XCIV. 51.)

* See also the Annals of the Astronomical Observatory.

Marshman Edward Wadsworth.

Instructor in Mathematics and Mineralogy, 1874-1877; Assistant in Geology, 1877-1878. Assistant in Lithology in the Museum of Comparative Zoology, 1878-

1. Notes on the Mineralogy and Petrography of Boston and Vicinity. (*Proc. Bost. Soc. Nat. Hist.*, May, 1877; XIX. 217.)
2. On the Granite of North Jay, Maine. (Id. May, 1877; XIX. 237.)
3. Fusibility of the Amorphous Varieties of Quartz. (Id. 238.)
4. On the so-called Tremolite of Newbury, Mass. (Id. Oct. 1877; XIX. 251.)
5. Notes on the Petrography of Quincy and Rockport. (Id. Feb. 1878; XIX. 309.)
6. Rutley's Study of Rocks. (*Am. Naturalist*, June, 1879; XIII. 385.)
7. Danalite from the Iron Mine, Bartlett, New Hampshire. (*Proc. Bost. Soc. Nat. Hist.*, Oct. 1879; XX. 284.)
8. Picrolite from a Serpentine Quarry in Florida, Mass. (Id. 286.)
9. Report on the Copper Falls Mine, Keweenaw Co., Michigan. Boston, 1879. 8°. pp. 14.
10. On the Elongation and Plasticity of Pebbles in Conglomerates. (*Proc. Bost. Soc. Nat. Hist.*, Nov. 1879; XX. 313.)
11. On the Origin of the Iron Ores of the Marquette District, Lake Superior. (Id. March, 1880.)
12. Report on the Mica Deposits of the Hartford Mica Mining Company, Groton, Grafton Co., New Hampshire. Boston, 1880. 12°. pp. 7.
13. The Volcanic Dust from Dominica. (*Nature*, July, 1880; XXII. 266.)
14. On the Age of the Copper-Bearing Rocks of Lake Superior. (*Proc. Am. Assoc. Adv. Sci.*, Aug. 1880. Boston.)
15. On Amygdaloidal Structure and Vein Formation, with Special Reference to the Copper-bearing Rocks of Keweenaw Point, Lake Superior, being a Reply to Prof. James D. Dana. (*Proc. Bost. Soc. Nat. Hist.*, Nov. 1880; XXI.)

* See also the Bulletin of the Museum of Comparative Zoology.

Leonard Waldo.

Assistant in the Observatory, 1875-1880.

1. Engineer's Instruments and their Adjustments. Boston. pp. 40. 1. 80.
2. On the Longitude of Waltham, Mass. Nov. 1877. (*Proc. Am. Acad. of Arts and Sciences*, XIII. 175.)
3. A Lecture on telling the Time. (*Bulletin of Essex Institute*, Feb. 1878; X. 40.)
4. Note on the Measurement of Short Lengths. Feb. 1878. (*Proc. Am. Acad.*, XIII. 352.)
5. Observations of the Satellites of Mars, and Miscellaneous Observations of Double Stars made in 1876 at the Observatory of Harvard College. (*Astronomische Nachrichten*, No. 2190; XCII. 87.)
6. Meridian Observations of Mercury at its Transit. May 5-6, 1878. (Id. No. 2207; XCII. 361.)
7. Observations of the Satellites of Saturn. (Id. Nos. 2254 and 2255; XCIV. 339.)
8. Report of the Observations of the Total Solar Eclipse, July 29, 1878, made at Fort Worth, Texas. Cambridge, 1879. 4°. [Mr. Waldo edited the volume and wrote a special report.]
9. Articles "Transit," "Sextant," "Telescope," "Ruling Machine," "Time Signals," "Mural Circle," "Zenith Telescope." (*Johnson's New Universal Cyclopaedia*. New York, 1877-78.)
10. Description of a New Position Micrometer. (*Am. Journ. of Science and Arts*, July, 1880; 3d Ser. XX. 49.)
11. On the Adaptation of the Opera-Glass to extremely Myopic Eyes. (*N. Y. Ophthalmological Journal*, 1880.)

* Mr. Waldo furnished the Report on the "time service" to the Annual Report of the director of the Astronomical Observatory for 1877, App. C.

John Collins Warren.

Instructor in Surgery, 1871 -

1. Anatomy and Development of Rodent Ulcer. Boylston Prize Essay for 1872. Boston, 1872. 8°. pp. 66.
2. Vaginal Lithotomy. (*Bost. Med. and Surg. Journ.*, July, 1876; XCV. 61.)
3. Columnæ Adiposæ, or, Note on the Anatomy and Pathology of the Skin. (Id. April, 1877; XCVI. 453.)
4. Symmetrical Gangrene of the Extremities. (Id. Jan. 1879; C. 76, 125.)
5. Clinical Lecture on Cancer of the Face, including "Rodent Ulcer." (*London Medical Times and Gazette*, 1879. Also *Bost. Med. and Surg. Journ.*, May, 1879; C. 625.)
6. The Treatment of Irreducible Hernia. (*Bost. Med. and Surg. Journ.*, March, 1880; CII. 271, 276.)
7. The Pathology of Carbuncle or "Anthrax." (Id. Jan. 1881; CIV. 5.)
8. Editorial Articles, Hospital Reports, etc., in *Bost. Med. and Surg. Journal* from 1872 to 1880, inclusive; LXXXVI.-CIII.

Emory Washburn.*Bussey Professor of Law, 1856-1876.*

1. Lectures on the Study and Practice of the Law, delivered in the Law School of Harvard University. Boston, 1871.
2. Address. (*Celebration of One Hundred and Fiftieth Anniversary of the Organization of the Town of Leicester*, 8. Cambridge, 1871.)
3. Address at the Dedication of the Normal School Building at Worcester, 1871.
4. Commencement Address at the Worcester County Free Institute of Industrial Science. Worcester, 1873.
5. International Code. 1873.
6. Remarks on a Visit to New Brunswick. (*Proc. Mass. Hist. Soc.*, 1873-1875, 76.)
7. The Tenure of Lands in New England. (Id. 114.)
8. Did the Vacating the Colonial Charter annul the Laws made under it? (Id. 451.)
9. Reasons for a Separate State Prison for Women. Boston, 1874. pp. 8.
10. Memoir of Hon. Joel Parker. (*Proc. Mass. Hist. Soc.*, 1875-1876, 172.)
11. Remarks made at the Centennial Celebration of Leicester, Mass. 1876.
12. Memoir of Colonel William Henshaw. (*Proc. Mass. Hist. Soc.*, 1876-1877, 65.)

Sereno Watson.*Curator of the Herbarium, 1874- .*

1. New Plants of Northern Arizona and the Region Adjacent. (*Am. Naturalist*, May, 1873; VII. 299.)
2. Revision of the Extra-Tropical North American Species of the Genera *Lupinus*, *Potentilla*, and *Eriogonum*. Nov. 1873. (*Proc. Am. Acad. of Arts and Sciences*, VIII. 517.)
3. On Section *Avicularia* of the Genus *Polygonum*. (*Am. Naturalist*, Nov. 1873; VII. 662.)
4. Revision of the North American *Chenopodiaceae*. April, 1874. (*Proc. Am. Acad.*, IX. 82.)
5. List of Plants collected in Nevada, Arizona, and Utah in 1871 and 1872. (*Geog. and Geol. Explorations and Surveys West of the One Hundredth Meridian*. Catalogue of Plants collected in the Years 1871, 1872, and 1873, with Descriptions of New Species, 5. Washington, 1874.)
6. Revision of the Genus *Ceanothus* and Descriptions of New Plants, with a Synopsis of the Western Species of *Silene*. March, 1875. (*Proc. Am. Acad.*, X. 333.)
7. Botanical Contributions. Oct. 1875. (Id. XI. 105.)
 - i. On the Flora of Guadalupe Island, Lower California. (Reprinted in *Am. Naturalist*, April, 1876; X. 221.)
 - ii. List of a Collection of Plants from Guadalupe Island, made by Dr. Edward Palmer, with his Notes upon them.
 - iii. Descriptions of New Species of Plants, chiefly Californian, with Revisions of Certain Genera.

8. Botany of California, Vol. I. Polypetalæ, by W. H. Brewer and Sereno Watson. Gamopetalæ, by Asa Gray. Cambridge, 1876. [Second (revised) edition, 1880.] (*California Geological Survey*.)
9. Descriptions of New Species of Plants, with Revisions of *Lychnis*, *Eriogonum*, and *Chorizanthe*. June, 1876. (*Proc. Am. Acad.*, XII. 246.)
10. The Poplars of North America. (*Am. Journ. of Science and Arts*, Feb. 1878; 3d Ser. XV. 135.)
11. Bibliographical Index to North American Botany; or, Citations of Authorities for all the Recorded Indigenous and Naturalized Species of the Flora of North America, with a Chronological Arrangement of the Synonymy. Part I. Polypetalæ. (*Smithsonian Miscellaneous Collections*, No. 258.) Washington, March, 1878.
12. Leguminosæ. (*Report upon United States Geographical Surveys West of the One Hundredth Meridian*. VI. Botany. 84. Washington, 1878.)
13. Contributions to American Botany, July, 1879. (*Proc. Am. Acad.*, XIV. 213.)
 - i. Revision of the North American *Liliaceae*.
 - ii. Descriptions of some New Species of North American Plants.
14. Botany of California. II. Cambridge, 1880. (*California Geological Survey*.)

Samuel Gilbert Webber.*Clinical Instructor in Diseases of the Nervous System, 1875- .*

1. Spinal Meningeal Hæmorrhage. (*Bost. Med. and Surg. Journal*, July, 1875; XCIII. 39.)
2. Concerning Acts committed by Epileptics. [Translation.] (Id. Sept. 1875; XCIII. 306.)
3. A Case of Lesion of Median Nerve, with reference to Distribution of that Nerve. (Id. Dec. 1875; XCIII. 631.)
4. A Contribution to the Study of Myelitis. (*Trans. Am. Neurological Assoc.*, 1875; I.)
5. The New Battery for Electrolysis of Uterine Fibroids. (*Bost. Med. and Surg. Journal*, Feb. 1876; XCIV. 209.)
6. Caries of the Cervical Vertebrae. (Id. March, 1876; XCIV. 259.)
7. Electricity as a Means of relieving Pain. (*Am. Psychological Journal*, May, 1876; III.)
8. Facial Paralysis of Cerebral Origin occurring in Infancy. (*Chicago Journal of Nervous and Mental Disease*, July, 1876; III. 363.)
9. Pain as a Symptom in Facial Paralysis, and its Causes. (*Bost. Med. and Surg. Journal*, Dec. 1876; XCV. 750.)
10. Nervous Symptoms secondary to slight Gastric Disturbance. (Id. Sept. 1877; XCVII. 354.)
11. Softening of the Brain. (Id. Dec. 1877; XCVII. 667.)
12. Paralysis after Acute Diseases with Special Reference to Pathology. (*Trans. Am. Neurol. Assoc.*, 1877; II.)
13. Hypertrophy and Atrophy of the Brain. (*Ziemssen's Cyclopædia of Medicine*, 1877; XII.)
14. "Tetanus," "Cataplexy," "Tremor," "Paralysis Agitans." [Translations.] (Id. 1877; XIV.)

15. Sclerosis of the Spinal Cord. (*Med. and Surg. Reports of Boston City Hospital*, 2d Series, 183. Boston, 1877.)
16. Cases of Hemiplegia, etc. (*Journal of Nervous and Mental Disease*, Jan. 1878; V. 99.)
17. Tumor in the Cerebellum. (Id. July, 1878; V. 445.)
18. Three Cases of Cerebral Meningitis from Different Causes. (*Bost. Med. and Surg. Journal*, Sept. 1879; CI. 357.)
19. Pseudo-Hypertrophic Paralysis. (Id. Sept. 1879; CI. 460.)
20. Myelitis, Acute and Subacute, with a Report of Eight Cases. (Id. Feb. 1880; CII. 157, 173.)
21. Water as a Prophylactic and a Remedy. (Id. July, 1880; CIII. 35. *Archives of Medicine*, Aug. 1880.)
22. Cardiac Irregularity as the only Result of Fright. (Cardiac Chorea.) (*Bost. Med. and Surg. Journal*, July, 1880; CIII. 93.)
10. Four Cases of Scleroderma. (Id. July, 1875.)
11. Ivy Poisoning. (*Boston Med. and Surg. Journal*, Sept. 1875; XCIII. 265.)
12. On the Selection of Medical Examiners. (*Insurance Index*, Sept. 1875.)
13. Analysis of Five Thousand Cases of Skin Disease. (*Bost. Med. and Surg. Journal*, Jan., Feb., March, May, 1876; XCIV. 85, 171, 323, 501, 565.)
14. Variations in Type and in Prevalence of Diseases of the Skin in Different Countries of Equal Civilization. Read before the International Medical Congress at Philadelphia. (*Proc. Internat. Medical Congress for 1876*. 665. Phila. 1877. Also printed separately, Phila. 1877. pp. 20.)
15. Dermatology in America. The President's Address before the American Dermatological Association. (*Archives of Dermatology*, Jan. 1877.)
16. Lichen exudativus ruber. (*Hospital Gazette and Archives of Clin. Surgery*, Nov. 1877.)
17. Lecture on Ringworm [Tinea trichophytina]. (*Bost. Med. and Surg. Journal*, Feb. 1878; XCVIII. 191.)
18. Melanoderma. (Id. May, 1878; XCVIII. 619.)
19. Recurrent Cutaneous Hæmorrhage, with Urticarial and Bullous Efflorescence. (Id. Oct. 1878; XCIX. 454.)
20. A Contribution to the Study of the Etiology of Skin Diseases. (Id. Oct. 1879; CI. 572.)
21. A Fourth Year in the Medical School. (*Harvard Register*, April, 1880; I. 78.)
22. The Skin in Health and Disease. (*Wood's Household Medicine*, I. 1880.)

Henry Nathan Wheeler.

Instructor in Mathematics, 1877 - .

1. The Elements of Plane Trigonometry. Boston, [1876] 1877, 1880. 120.
2. Spherical Trigonometry. Boston, 1878, also, 1880. 120.
3. The Harvard University Catalogue for 1879-80. (*Harvard Register*, Jan. 1879; I. 8.)
4. The Harvard University Catalogue for 1880-81. (Id. Dec. 1880; II. 242.)

. See also University Publications.

James Clarke White.

Assistant Professor of Chemistry, 1866-1871; *Professor of Dermatology*, 1871 - .

1. Medical Education in America. An Introductory Address. (*Bost. Med. and Surg. Journal*, Nov. 1870; LXXXIII. 277.)
2. A Review of Modern Dermatology. (*Am. Journal of Medical Sciences*, April, 1871.)
3. On the Protection acquired by the Human Skin and other Tissues against the Action of certain Animal Poisons, after Repeated Inoculation. (*Boston Med. and Surg. Journal*, Nov. 1871; LXXXV. 297.)
4. The Vegetable Parasites of the Human Skin. (*Third Ann. Rep. Mass. Board of Health for 1871*, 247. Boston, 1872.)
5. Semi-Annual Reports on the Progress of Dermatology. (*Bost. Med. and Surg. Journal*, June and Dec. 1872-1880; LXXXVII.-CIII.)
6. On Expert Testimony and the Alley Trial. (Id. Feb. 1873; LXXXVIII. 225.)
7. On the Poisonous Action of Rhus toxicodendron and R. venenata on the Human Skin. (*New York Medical Journal*, March, 1873. Also printed separately, New York, 1873. pp. 27.)
8. Poisoning by the use of Tincture of Arnica upon the Skin. (*Bost. Med. and Surg. Journal*, Jan. 1875; XCII. 61.)
9. Semi-Annual Reports on Acute Exudative Diseases of the Skin. (*Archives of Dermatology*, Jan. and July, 1875-1880.)

John Williams White.

Tutor in Greek, 1874-1877; *Assistant Professor of Greek*, 1877 - .

1. A Series of First Lessons in Greek. Adapted to Goodwin's Greek Grammar, and designed as an Introduction either to Goodwin's Greek Reader, or to his Selections from Xenophon and Herodotus, or to the Anabasis of Xenophon. Boston, 1876. 120. [2d Ed. 1880. Also London, 1880.]
2. Key to the Series of First Lessons in Greek. Boston, 1876. 120. pp. 53. [Also Key to 2d Ed. of First Lessons, &c. Boston, 1880.]
3. A Companion of Parallel References to Hadley's Greek Grammar, designed to accompany White's First Lessons in Greek. Boston, 1876. 120. pp. 32.
4. (With W. W. Goodwin.) Selections from Xenophon and Herodotus. Boston, 1877. 120.
5. (With W. W. Goodwin.) The First Four Books of Xenophon's Anabasis. Boston, 1877. 120. [Also London, 1880.]
6. An Introduction to the Rhythmic and Metric of the Classic Languages. To which are added the Lyric Parts of the Medea of Euripides and the Antigone of Sophocles, with rhythmic schemes and commentary. By Dr. J. H. Heinrich Schmidt. Translated by J. W. White. Boston, 1878. 80. xii., 198.
7. Greek and Latin at Sight. A Pamphlet reprinted from the New-England Journal of Education. Boston, 1878. 120. pp. 21.

8. Stein's Summary of the Dialect of Herodotus. Translated by J. W. White. Boston, 1880. 12°. pp. 15.

Josiah Dwight Whitney.

Sturgis Hooper Professor of Geology, 1865 - .

1. Ornithology [of California]. Vol. I. Land Birds. Edited by S. F. Baird from the MS. and Notes of J. G. Cooper. xi. 592. [Cambridge.] 1870. Roy. 80.
2. The Yosemite Guide Book. [Cambridge.] 1870. 4°. [Two editions 160. Cambridge, 1871 and 1874.]
3. Earthquakes, Volcanoes, and Mountain-Building. Three Articles published in the North Am. Review, 1869-71. Cambridge, 1871. 80.
4. State Geological Survey. (*Overland Monthly*, Jan. 1872; VIII. 79.)
5. Note on the Occurrence of the "Primordial Fauna" in Nevada. (*Am. Journal Science and Arts*, II. 41; Feb. 1872; 3d Ser. III. 84.)
6. The Owen's Valley Earthquake. (*Overland Monthly*, Aug. and Sept. 1872; IX. 130, 266.)
7. Note on the Occurrence of the Trias in British Columbia. (*Am. Journal Science and Arts*, June, 1873; 3d Ser. V. 473.)
8. Physical Features of the United States. (*Walker's Statistical Atlas of the United States*. [New York] 1874. 40.)
9. Contributions to Barometric Hypsometry, with Tables for use in California. [Cambridge.] 1874. pp. 88. Roy. 80. [Supplement, pp. 89-112, added in 1878.]
10. Map of California and Nevada. Scale, 18 miles to 1 inch. Two Sheets. 1874.
11. Map of Central California. Scale, 6 miles to 1 inch. Four Sheets, three completed. 1874.
12. "California." (*Encyclopædia Britannica*, 9th ed. Also printed separately, Boston, 1875. 160.)
13. Geographical and Geological Surveys. From the North American Review for July and Oct. 1875. Cambridge, 1875. 80.
14. Are We Drying Up? (*Am. Naturalist*, Sept. 1876; X. 513.)
15. Plain, Prairie, and Forest. (Id. Oct. and Nov. 1876; X. 577, 656.)
16. Botany [of California]. Vol. I. The Polypetalæ. By W. H. Brewer and Sereno Watson. The Gamopetalæ. By Asa Gray. xx., 628. Cambridge, 1876. Roy. 80. [2d ed., revised and corrected, 1880.]
17. The Chinese Loess Puzzle. (*Am. Naturalist*, Dec. 1877; XI. 705.)
13. Collection of Mining Statistics. (Appendix to *Rep. of Sup. of Census to Sec. of Interior*, 1878. Washington, 1878.)
19. The Fossil Plants of the Auriferous Gravel Deposits of the Sierra Nevada of California. By Leo Lesquereux. pp. 62. Cambridge, 1878. Roy. 80. The Climatic Changes of Later Geological Times: a Discussion based on Observations made in the Cordilleras of North America. Part I. Roy. 40. (*Contributions to American Geology*, Vol. II.)
20. Geological Map of the Region adjacent to the Bay of San Francisco. Scale, 2 miles to 1 inch. Two Sheets. 1878.
21. Botany [of California]. Vol. II. By Sereno Watson. xv., 559. Cambridge, 1880. Roy. 80. [Completing the work.]
22. The Auriferous Gravels of the Sierra Nevada of California. xvi., 569. Cambridge, 1880. Roy. 40. (*Contributions to American Geology*, Vol. I.)

* Nos. 1, 2, 9, 10, 11, 16, 20, and 21 are contributions to the *Geological Survey of California*, J. D. Whitney, Director. Nos. 19 and 22, appear in the *Memoirs of the Museum of Comparative Zoölogy*, as well as in the *Geological Survey of California*. See also the Memoirs and Reports of the Museum of Comparative Zoölogy.

Edward Wigglesworth.

Clinical Lecturer and Instructor on Syphilis, 1871 - .

1. Epithelial Carcinoma. (*Bost. Med. and Surg. Journal*, Jan. 1871; LXXIV. 33.)
2. Koester on Epithelial Cancer. (*Am. Journal of Syphilography and Dermatology*, [New York.], April, 1871.)
3. Duhring's Study of Dermatology. (*Bost. Med. and Surg. Journal*, May, 1871; LXXXIV. 315.)
4. Taylor on Dactylitis Syphilitica. (Id. June, 1871; LXXXIV. 393, 413.)
5. Fox on Skin Diseases. (Id. Nov. 1871; LXXXV. 333.)
6. Editorship, as Secretary, of the Proceedings of Boston Soc. of Med. Sciences, 1871-73, inclusive. (Id. LXXXV.-LXXXIX.)
7. Alopecia [Baldness]. (*Publications of Mass. Med. Soc.*, 1871.)
8. Bulkley's Neumann on Skin Diseases. (*Bost. Med. and Surg. Journal*, March, 1872; LXXXVI. 205.)
9. Case of Dactylitis Syphilitica; illustrated. (*Am. Journal of Syphilography and Dermatology*, [New York.], April, 1872.)
10. Henry's Vienna Hospital Treatment of Venereal Diseases. (*Bost. Med. and Surg. Journal*, May, 1872; LXXXVI. 299.)
11. Hæmorrhagic Small Pox. (Id. Jan. 1873; LXXXVIII. 25.)
12. Case of Prurigo Ferox Universalis; with Remarks. (*Am. Journal of Syphilography and Dermatology* [New York.], Jan. 1873.)
13. Treatment of Erysipelas. (*Bost. Med. and Surg. Journal*, Feb. 1873; LXXXVIII. 207.)
14. Annual Reports of the Boston Dispensary for Skin Diseases, 1873-77, inclusive. Boston.
15. Semi-annual Digests of the Literature of Skin Diseases upon "Hypertrophies, Atrophies, and New Formations." (*Archives of Dermatology* [New York.], Oct. 1874-Jan. 1881.)
16. Affections of the Sebaceous Glands. (*Bost. Med. and Surg. Journal*, Jan. and March, 1875; XCII. 92, 313. Also printed separately.)
17. "Varicella," "Measles," and "Rubeola." (*Ziemszen's Cyclopædia of the Practice of Medicine*, Vol. II., Acute Infectious Diseases. Am. ed. 1875.)
18. A Case of Idiopathic, Multiple, Medullary, Round-celled Sarcoma of the Skin, with a Retrospect of all recorded similar Cases. (*Archives of Dermatology* [New York.], Jan. 1876. Also printed separately, New York, 1876. pp. 10.)

19. Editorship, as Secretary, of the Proceedings of Boston Soc. for Medical Observation. (*Bost. Med. and Surg. Journal*, 1876; XCIV.)
20. The Curette in Dermal Therapeutics. (Id. Feb. 1876; XCIV. 143.)
21. Fibromata of the Skin and Subjacent Tissues; illustrated. (*Archives of Dermatology* [New York], April, 1876.)
22. Piffard on Skin Diseases. (Hay's *Am. Journal of Med. Sciences* [Phila.], 1876.)
23. Duhring's Practical Treatise on Diseases of the Skin. (*Philadelphia Med. Times*, March, 1877.)
24. Proceedings Am. Dermatological Assoc. (*Bost. Med. and Surg. Journal*, Sept. 1877; XCVII. 309. Sept. 1879; CI. 341, 375.)
25. Auto-Inoculation of Vegetable Parasites of the Skin, and the Clinical Testimony for their Identity or Non-Identity. (*Archives of Dermatology* [New York], Jan. 1878.)
26. Recent Progress in Syphilology. (*Bost. Med. and Surg. Journal*, Feb. 1878; XCVIII. 271. Dec. 1878; XCIX. 793, 829. April, 1879; C. 569. May, 1879; C. 602. Oct. 1879; CI. 588.)
27. Recent Progress in Dermatology and Syphilis. (Id. April, 1880; CII. 394, 419.)

Henry Willard Williams.

Lecturer on Ophthalmology, 1869-1871; Professor of Ophthalmology, 1871-.

1. Our Eyes, and How to Take Care of Them. Boston, 1871. 120.
2. Enucleation of the Eyeball. (*Bost. Med. and Surg. Journal*, Dec. 7, 1871; LXXXV. 361.)
3. Improvement in Cataract Operations. (Id. Dec. 5, 1872; LXXXVII. 385.)
4. A Practical Guide to the Diseases of the Eye: their Medical and Surgical Treatment. 4th ed. revised and enlarged. Boston, 1873. 80.
5. Tattooing the Cornea. (*Bost. Med. and Surg. Journal*, July 3, 1873; LXXXIX. 4.)
6. Puerperal Amaurosis and its Importance as a Symptom. (Id. Oct. 16, 1873; LXXXIX. 373.)
7. Serious Pathological Changes in Myopic Eyes. (Id. Oct. 29, 1874; XCI. 413.)
8. Peculiar Phenomena attending a Case of Sudden Temporary Loss of Hearing and Sight. (*Trans. Am. Ophthalmological Soc.*, July, 1875.)
9. On the Comparative Value of Caustics and Astringents in the Treatment of Diseases of the Conjunctiva, and on the Best Mode of applying these Remedies. (*Trans. Internat. Med. Congress of Phila.* in 1876, 893, Phila. 1877. Also printed separately, Phila. 1877.)
10. Eserine and Pilocarpine in the Treatment of Eye Disease. (*Bost. Med. and Surg. Journal*, March, 1878; XCVIII. 327. Also printed separately, Cambridge, 1878.)
11. Extirpation of the Ossified Choroid without Enucleation of the Eyeball. (*Trans. Am. Ophthalmological Soc.*, July, 1878.)
12. The Diagnosis and Treatment of Eye Diseases. Boston, 1881. 80. *In press.*

Robert Wheeler Willson.

Assistant in the Observatory, 1874-1875; Tutor in Physics, 1875-.

1. Observations on Juno. (*Astron. Nachrichten*, No. 2051; LXXXVI. 174. Kiel, 1875.)
2. Report of R. W. Willson. (*Report of the Total Solar Eclipse, at Fort Worth, Texas, July 29, 1878, 37.* Cambridge, 1879. 40.)

Joseph Winlock.

Director of the Observatory, Phillips Professor of Astronomy, and Professor of Geodesy, 1866-1875.

1. Observations of the Total Solar Eclipse of Aug. 7, 1869, at Shelbyville, Kentucky, and at other Stations in the Vicinity. (*Report of the Superintendent of the United States Coast Survey for 1869, 124.* Washington, 1872.)
2. Observations of the Total Solar Eclipse of Dec. 22, 1870, made at Jerez de la Frontera. (*Report of the Superintendent of the United States Coast Survey for 1870, 134.* Washington, 1873.)
3. Results in Right Ascension of 156 Fundamental Stars, observed with the Meridian Circle of Harvard College Observatory. [W. A. Rogers and A. MacConnel, observers.] (*Astron. Nachrichten*, No. 1909; LXXX. 193. Altona, 1873.)
4. Right Ascensions of Fundamental Stars observed with the Meridian Circle of Harvard College Observatory. [W. A. Rogers, observer.] (*Astron. Nachrichten*, No. 1947; LXXXII. 33. Kiel, 1873.)

. See also the Annals of the Astronomical Observatory.

Justin Winsor.

Librarian, 1877-.

1. The Readers' Handbook of the American Revolution, 1761-1783. Boston, [1879] 1880. 160.
2. The College Library. (*Circulars of Information of the Bureau of Education*, No. I. 1880. 7. Washington, 1880.)
3. Editorship of The Memorial History of Boston. I. 1880. 40. The chapters on "The Earliest Maps of Massachusetts Bay and Boston Harbor," 37, and "The Literature of the Colonial Period," 453, were written by the Editor. *Vols. II., III. and IV. in Press.*

. Also, addresses; as President of the American Library Association, printed with other papers in the *Library Journal*; and papers, chiefly of a bibliographical character, in current periodicals. See also *Library Bulletin* and *Bibliographical Contributions*.

Edward Stickney Wood.

Assistant Professor of Chemistry, 1871-1876; Professor of Chemistry, 1876-.

1. Semi-Annual Reports on Recent Progress in Medical Chemistry. (*Boston Med. and Surg. Journal*, Jan. 1873; LXXXVIII. 14, 32. July, 1873; LXXXIX. 6, 33. Jan. 1874; XC. 7, 36. July, 1874; XCI. 9, 33. Jan. 1875; XCII. 9, 39. July, 1875; XCIII. 12, 43. Jan. 1876; XCIV. 11, 37. July, 1876; XCV. 8, 35. Jan. 1877; XCVI. 11, 46. July, 1877; XCVII. 13, 40. Feb. 1878; XCVIII. 170.)

2. (With Prof. H. P. Bowditch, M.D., and C. W. Swan, M.D.) Report [to the City of Boston] of the Medical Commission upon the Sanitary Qualities of the Sudbury, Mystic, Shawshine, and Charles River Waters. (*Boston City Document*, No. 102, 1874. Boston, 1875.)
3. (With C. F. Choate and J. F. Osgood.) Report of the Gas Commissioners, in relation to the Supply of Gas to the City of Boston. (*Boston City Document*, No. 91, 1876. Boston, 1877.)
4. Illuminating Gas in its Relations to Health. Paper read at the Annual Meeting of the American Public Health Association, Oct. 5, 1876. (*Reports and Papers of Am. Public Health Assoc.*, III. 62.)
5. The Relation which Chemistry bears to Forensic Medicine. Paper read before the Mass. Medico-Legal Soc., June 11, 1878. (*Trans. Mass. Medico-Legal Soc.*, I. No. 1. Also, *Bost. Med. and Surg. Journal*, Aug. 1878; XCIX. 139.)
6. A Guide to the Qualitative and Quantitative Analysis of the Urine. By C. Neubauer and J. Vogel. Translated by E. G. Cutler, M. D. Revised by E. S. Wood. New York, 1879.
7. Poisoning by the Heavy Metals and their Salts, including Arsenic and Phosphorus. By Prof. B. Naunyn. Translation. (*Ziemssen's Cyclopaedia of the Practice of Medicine*, XVII. 557.)
8. Two Cases of Cystinuria. Paper read before the Boston Soc. for Med. Observation, March 3, 1879. (*Boston Med. and Surg. Journal*, July, 1879; CI. 4.)
9. The Character and Purity (Present and Future) of the Water supplied to the City of Cambridge. (*Report of the Special Committee on the Water Supply of the City*, 21. Appendix I. Cambridge, 1879. The greater part of this, under title of "The Water Supply of Cambridge," is in *First Ann. Rep. of Mass. State Bd. of Health, Lunacy, and Charity*, 1879. Supplement, 67. Boston, 1880.)

Chauncey Wright.

University Lecturer on Psychology, 1870-71; Instructor in Physics, 1874-1875.

1. Limits of Natural Selection. (*North Am. Review*, Oct. 1870; CXI. 282.)
2. Genesis of Species. (Id. July, 1871; CXIII. 63. Also reprinted, with additions, under title: Darwinism; Being an Examination of St. George Mivart's Genesis of Species. London, 1871. pp. 46.)
3. The Uses and Origin of the Arrangement of Leaves in Plants. Presented Oct. 10, 1871. (*Mem. Am. Acad. of Arts and Sciences*; New Series, IX. 379.)
4. Lewes's Problems of Life and Mind. (*Nation*, June 11, 1874, No. 467; XVIII. 381.)
5. [Books relating to the Theory of Evolution.] (Id. Feb. 18, 1875, No. 503; XX. 113.)
6. McCosh on Tyndall. (Id. April 22, 1875, No. 512; XX. 277.)
7. Speculative Dynamics. (Id. June 3, 1875, No. 518; XX. 379.)
8. Todhunter's Conflict of Studies. (*North Am. Review*, July, 1875; CXXI. 86.)

9. German Darwinism. (*Nation*, Sept. 9, 1875, No. 532; XXI. 168.)

. All the above are reprinted in *The Philosophical Discussions of Chauncey Wright*. Edited by C. E. Norton. Boston, 1877. 8°.

Jeffries Wyman.

Hersey Professor of Anatomy, 1847-1874.

1. Experiments with Vibrating Cilia. (*Am. Naturalist*, Oct. 1871; V. 611.)
2. Description of the Brain of the Opossum. May, 1872. (*Mem. Bost. Soc. of Nat. Hist.*, II. 151.)
3. Remarks on Cannibalism among the American Aborigines. (*Proc. Bost. Soc. Nat. Hist.*, May, 1874; XVII. 14.)
4. Human Remains in the Shell Heaps of the St. John's River, East Florida. Cannibalism. (*Am. Nat.*, July, 1874; VIII. 403.)
5. Fresh-Water Shell Mounds of the St. John's River, Florida. (*Memoirs Peabody Acad. Science*, I. No. 4. Salem, 1875.)

. See also the Reports of the Peabody Museum and MSS. quoted in *American Naturalist*, iii. 621 and vi. 16.

Edward James Young.

Hancock Professor of Hebrew and other Oriental Languages, and Dexter Lecturer on Biblical Literature, 1869-1880.

1. The Influence of the Living Christ. A Discourse delivered at the Installation of Rev. E. C. Butler as Pastor of the First Parish in Beverly, Mass., March 7, 1872. Boston, 1872. 8°.
2. The Claims of the Christian Ministry upon Young Men, and its Attractions. An Address delivered in Hollis Street Church, Boston, March 1, 1874. Cambridge, 1874. 12°.
3. Heinrich Ewald. A Paper read before the American Oriental Society, May 19, 1875. (*Christian Register*, Boston, May 22, 1875.)
4. "Appleton Chapel." (*Harvard Book*, I. 122. Cambridge, 1875.)
5. "College Prayers." (Id. II. 120.)
6. Oration at the Bi-Centennial Celebration at Sudbury, Mass. Boston, 1876. pp. 44.
7. On the Sinaitic Inscriptions. A Paper read before the American Oriental Society, May, 1876. (*Journ. Am. Oriental Soc.*, X. cxxix.)
8. The Value of the Study of Hebrew for a Minister. (*Unitarian Review*, May, 1879; XI. 479. Also printed separately, Boston, 1879. pp. 28.)
9. Subjects for Master's Degree in Harvard College, 1655-1791. Translated and arranged, with an Introduction and Notes. Reprinted from the Proceedings of the Mass. Historical Society, June, 1880.

Ernest Young.

Instructor in History and Roman Law, 1874-1878.

1. The Anglo-Saxon Family Law. (*Essays in Anglo-Saxon Law*, 121. Boston, 1876. 8°.)

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No. 14.



NOTES ON THE HISTORICAL HYDROGRAPHY OF THE HANDKERCHIEF SHOAL IN THE BAHAMAS.

By WILLIAM H. TILLINGHAST.

REPUBLISHED FROM THE BULLETIN OF HARVARD UNIVERSITY.

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14. WILLIAM H. TILLINGHAST. Notes on the Historical Hydrography of the Handkerchief Shoal in the Bahamas.

NOTES ON THE HISTORICAL HYDROGRAPHY OF THE HANDKERCHIEF SHOAL IN THE BAHAMAS.

[TAKEN MAINLY FROM MAPS IN THE HARVARD COLLEGE LIBRARY.]

By WM. H. TILLINGHAST.

* * SOUTHEAST of Turks Islands, the easternmost group of the Bahamas, lie the three shoals known as *Mouchoir Carré* or *Square Handkerchief*, *Silver Bank*, and *Navidad*. Some maps place islands in the first two banks, although they now consist only of sand and wasting coral reefs. It was thought that an examination of old maps might reveal a change in the condition of the shoals since the time of the discovery of the Bahamas, which might be of importance in the disputed question of the Landfall of Columbus. With this object the maps and charts in Harvard College Library have been looked over. While the results are not such as were anticipated, since they throw more light on the condition of the cartography of the West Indies than on any physical changes among the Islands, it is hoped they are, nevertheless, of some value. The arrangement is chronological; the dates at the beginning of each title are those of the first publication of the maps. The testimony of each map is indicated by an S preceding the date when the shoals are put down as not containing islands, and, when islands are given, by a numeral in the same place expressing the number of these islands. Those in the College Library are marked (H. C.).

S (?) 1500. Iuan de la Cosa. Mapped-Monde. N. of *Espanola*, is *Caicocon*, the most easterly of the Bahamas; S. E. of this run two dotted lines, a bar or shoal, not named.

Original in Royal Library, Madrid. Reproduced, full size, in Jomard's *Monuments de la Géographie*. Stevens in his *Notes* (H. C.) copies Jomard. Humboldt's copy in the *Examen Critique*, vol. v. (H. C.) and in app. to Ghillany's *Behaim* is not accurate.

? 1501-4. Portuguese map, giving coasts of Europe and America. Date and author unknown. N. of *Spagnola* to the extreme east, are two nameless islands followed by three rocks and the words *baxida ? loho*.

Original in Munich. Reproduced, full size, in Kuntzmann's *Atlas zur Entdeckungsgeschichte America's*, pl. ii.

S (?) 1511. Peter Martyr d'Anghiera. Map of the West Indies. The Bahamas are given, but not named. At the east end a large shoal surrounds the last five or six islands, and stretches beyond them to the east, the point curving northward.

Contained in *P. Martyr's Angli Mediolanensis Opera*, etc. Hispalis, 1511. Reproduced in the Carter Brown Catalogue and in Stevens's *Notes*, pl. iv., 5.

1. 1514 (?). Portuguese Portolano. Undated, author unknown. The most easterly of the Bahamas is a small island in the shape of a Greek cross, intitled *babueca*, S. E. from which runs a long shoal containing rocks. It is named *abrejo*. Against this name is the inscription: *Terram antipodum R. gis castelle | Inbenta p' xpo forum columb' | ge- | nuensem*.

Original in Munich. Reproduced in Kuntzmann's *Atlas*, pl. iv.; in Stevens's *Notes* pl. v. (H. C.): and on a reduced scale and incorrectly in Kohl's *Discovery of the East Coast of North America*, p. 179. (H. C.) It should be borne in mind, however, that Kohl's reproductions of maps in this work were purposely incomplete, his intention being to give only what pertained to the subject he was illustrating, and that he avoided facsimile representations.

* * An island of the name of *Babueca* is given on a terrestrial globe of the first half of the sixteenth century now in Frankfurt-on-the-Main, but the island is located N. E. of and near Cuba in 30° N. There are rocks indicated between the island and Cuba. (See Jomard. *Monuments*.)

S. 1519? Visconto de Maiollo. Mapped-Monde. Undated. Extreme East, lat. 22° N., a shoal, shaped like a bird's wing, extends from W. to E., and is named *Abro logio*. No other name is given among the Bahamas.

Original in Munich. Reproduced in Kuntzmann's *Atlas*, pl. v.

S. 1527. Spanish Mapped-Monde. Author unknown. A diamond-shaped shoal forms the eastern end of the Bahamas. It is named *Baxos de Babueca*.

Original, or a very early copy, at Weimar. The American portion is reproduced, full size, by J. G. Kohl in *Die beiden ältesten General-Karten von Amerika*. Weimar. 1860. Dr. Kohl identifies *Baxos de Babueca* with the present *Silver Bank*. It better corresponds to *Mouchoir Carré*.

S. 1529. Diego Ribero. Spanish Mapped-Monde. Much like the last. The Bahamas end in *Baxos de Babueca*, a diamond-shaped shoal.

Original or early copy at Weimar, also a copy at Rome. Reproduced first by Sprengel in his translation of Muñoz *Geschichte der neuen Welt*. Weimar. 1795. (H. C.) and recently by J. G. Kohl, in *Die beiden ältesten General-Karten von Amerika*. Weimar. 1860.

S. 1541. Gerard Mercator. Terrestrial Globe. N. of *Hispaniola*, an island *Cacomium*, followed by *Nuniona*, a small island surrounded by a shoal, to the E. of which is a diamond-shaped shoal, *Abreolo*.

Original, engraved in sections, is in the Royal Library at Brussels. Reproduced in *Les Sphères Terrestre et Céleste de Gérard Mercator éditées à Louvain en 1541 et 1551*. Ed. nouvelle. Bruxelles. 1875. (H. C.)

S. 1542-43. French Mapped-Monde. Undated; author unknown. Called "Henry II's map." A diamond-shaped shoal, *Abreolo*.

Original in the National Library, Paris. Reproduced by Jomard, *Monuments*, etc., pl. xix. It much resembles the map by Thomas Hood. 1592. (q. v.)

S. 1544 Sebastian Cabot? Mapped-Monde. *Baxos de abrejo* is a large diamond-shaped shoal.

Original in the National Library, Paris. Reproduced by Jomard, *Monuments*, pl. xx. Stevens in his *Notes* gives only the St. Lawrence, so also Kohl, *Discovery of East Coast*, p. 358.

B. 1554. Iuan Belloero. *Brevis, exactaq. totius novi orbis, et Peruviae regionis descriptio recens edita.* An unusually good map. *Bayos de Bubuca* is a diamond-shaped shoal.

This map was first published in Belloero's edition of Gomara, *La Historia General de las Indias*. Anvers. 1554. It is found in several other works published by Belloero, as in Cieza de Leon, 1556: Darinel de Tírel, 1555: Levinus Apollonius, *de Peruviae . . . inventiones*, etc. Antwerpiae. 1566. (H.C. 2385.28. cab.)

B. 1569. Gerard Mercator and sons. *Mappe-Monde.* *Abrijo* is a diamond-shaped shoal.

Original in the National Library, Paris. Reproduced, full size, in Jomard's *Monuments*, pl. xxi. Bahamas are like the group in Michael Mercator's map; *America sive India Nova* in the Mercator-Hondius Atlas of 1613. (H.C. 36.56.)

B. 1580. Vaz Dourado. Atlas. *Abroio* is a diamond-shaped shoal.

Original at Munich. Reproduced, full size, in Kuntzmann's *Atlas*, Plates viii.-xii. West Indies on pl. x.

B. 1584. Abraham Ortelius. *Hispaniolae Cubae aliarumque insularum circumiacentium, delineatio, etc.* A detailed map of the West Indies in the *Theatrum orbis Terrarum*, edition of 1584. (H.C.) On the east end of the Bahamas is *Scylla Magna*, a diamond-shaped shoal. The Great Bahama reef is *Carybdis Magna*.

This map is not in the edition of 1570, or in that of 1575 (H.C.). The edition of 1580, which has some new maps, I have not seen.

B. 1592. Thomas Hood. On this map, which much resembles the map of Henry II. (1542), *Abriolo* is a diamond-shaped shoal.

Original at Munich. Reproduced, full size, in Kuntzmann's *Atlas*, pl. xiii.

B. 1594. Arnoldus Florentius à Langren. *Delineatio omnium orarum totius Australis partis Americae, etc.* In Linschot's *Voyages*. Drawn after Lusitanian charts. *Abri Ojo* is a diamond-shaped shoal.

This map is found in the Dutch edition of Linschot, 1594; in the English edition by Wolfe, 1598 (H.C.), though the author's name is here omitted, and in the French edition, Amsterdam, 1638. (H.C.)

B. 1600. Molineaux and Wright. [See Preface to Hakluyt Society's fac simile.] Map of the World. *Abrecoso* is a shoal of indefinite shape.

This map is found in some copies of Hakluyt's *Collection of Voyages*, edition of 1598-1600. The Lenox library in New York has a copy of this edition, with the map, in beautiful condition. It is probably the map referred to in the preface to Hakluyt's first edition (1589) (H.C.) as shortly to appear. It is reproduced in facsimile in the publications of the Hakluyt Society. London. 1880. (H.C.)

1. 1600 (?). Iodocus Hondius. *Vera totius expeditionis navicae Descriptio D. Franc. Draci, etc.* N. E. of *Spaniola* and near the tropic of Cancer is a small island surrounded by a reef or shoal.

The map was to illustrate Hondius' ed. of Drake and Cavendish's *Voyages*. It is reproduced in the Hakluyt Society's ed. of *The World Encompassed*. 1854. (H.C.) In the introduction, p. xv, the map is said to come from a Dutch work beginning "Corte beschryvingke van die seer heerlicke voyage der Capiteyn Draeck," which was translated and published (without this map) in 1742, by Mr. Wright. I have not found any other mention of such an edition.

1. 1601. Herrera. Map of America. *Abrejo* is an island surrounded by rocks or shoals, as in Hondius' map.

Contained in the *Descripcion de las Indias*. 1601 (first edition). Barlaeus' Latin edition 1622 (H.C.), has the same map.

B. 1607? Iodocus Hondius. Map of America, in the atlas of Mercator. 1613. (H.C.) *Abreloio* is a diamond-shaped shoal.

This is one of the maps which I. Hondius added to Mercator's. He bought Mercator's plates in 1604, and died himself in 1611.

B. 1625. Master Briggs. *The North part of America.* *Abroio* is a large oblong shoal with incurving sides.

Contained in *Purchas His Pilgrims*, vol. iii. p. 853.

B. 1625. Ioannus de Laet. Map entitled: *De groote ende kleine Eylander van West-Indien.* *Abreoyo* is a large diamond-shaped shoal. Scale 1 in.-140 Eng. miles.

This is in the first Dutch edition of de Laet's *Nieuwe Wereldt*. The Latin edition, *Novus Orbis, etc.*, Lugd. Bat. apud Elzivirios, 1633, has the same map. (H.C. 2 copies.) The map entitled *Ylandes of the West Indies*, in the English translation of Mercator and Hondy's Atlas, London, 1635 (H.C.), is like the above.

B. 1635. Guil. Blaeu. *Tweede Deel van't Tooneel des Aerdrichx ofte Nieuwe Atlas.* Amsterdam. 1635. (H.C. 36.43.) 2d part. 1. Map of America. *Abrolha*, an oval shoal. 2. *Insulae Americanae in Oceano septentrionali, etc.* *Abrejo* & *Baxos de Babucca*, a large diamond-shaped shoal.

Blaeu's first Atlas was *Appendix Theatri Ortelii et Atlantidis Mercatoris*. 1631. I have not seen a copy. The *Novus Atlas* came in 1635, and Blaeu and his sons continued to publish it until 1662, when it filled six folio vols. (H.C. Art Room.) The American maps were not altered. The detailed map of the West Indies is slightly altered from de Laet's. In the form Blaeu gave it, it was often printed by other map-makers under their own names. It occurs in the Harvard Library under the following forms: 1°. *Les Isles Antilles, etc.* N. Sanson d'Abbeville, Paris, 1656. 2°. Map by Nicolaus Vischer. 3°. Map by Peter Vander. 4°. Map by Cornelis Dankerts. 5°. In the *Atlas Nouveau* par le Sieur Sanson, pub. about 1700? 6°. In *De Nieuwe en Onbekende Weereld, etc.* Arnoldus Montanus, Amsterdam. 1671, p. 172-3. (H.C. 1331.26.) Same in German by O. (Hert) D. (apper), Amst. 1673, and in English by John Ogilby. London. 1671. (1331. 5.) 7°. In the *Historia General de las Indias Occidentales* (Herrera) Amberes. 1728, vol. iv, p. 6. 8°. *Insulae Americanae nempe Cuba Hispaniola Yarmaica Pto Rico Lucania, etc.* par Reinier & Josua Ottens. In Ottens' *Atlas Minor*. 1730 (?). Founded on Blaeu, though the drawing is more jagged. 9°. The same Atlas contains a direct copy of Blaeu's map. 10°. *Isles de l'Amerique* par Pierre Vander Aa. . . in *la Galerie agrtable du monde*. Leide. 2 vols. about 1765 (?).

1. 1636 (?). Joannes Jansson. *America Septentrionalis*. Undated. Latest discovery noted is in 1631. *Baxos de Babucca* is an island with a shoal around it, as in Herrera's map, 1601. Otherwise the map is not like Herrera's but like Blaeu's of 1635.

This is a loose sheet, No. 4355 in the collection of loose maps, H.C. It is from Jansson's *Atlas*, published 1636, which contains also the map *Insulae Americanae, etc.*, as in Blaeu.

B. 1652. Nicolaus Vischer. *Americae Nova descriptio.* *Abreslio* a diamond-shaped shoal, whose N. W. side touches a small nameless island lying just south of a slightly larger one, *Amiona*.

A loose sheet. Another map, *Novissima et accuratissima Totius Americae descriptio per N. Vischer* has the word *Abreoyo* S. E. of *Amiona*.

B. 1670. John Ogilby. *Novissima et accuratissima Totius Americae Descriptio.* *Abreoyo* is a shoal roughly diamond shaped.

The map occurs in *America, being an accurate description of the New World, etc.* London. 1670, which is a translation of Montanus', *De Nieuwe en Onbekende Weereld*. There was another edition in 1671.

B. 1675. Arent Roggeveen. *The First Part of the Burning Fen, Discovering the whole West Indies, The Continent and the Islands, Beginning from Rio Amasones, and ending on the North of Terra Nova, described by Arent Roggeveen.* Amsterdam. Peter Goos. 1675. Plate 1. *Generaale Kaert van West Indien.* *Abrejo* & *Baxos de Babucca* is a diamond-shaped shoal. The map is founded on Blaeu's. Plate 20. *Pascaerte van 't Eylant Spagnola, etc.* On a larger scale than any of an earlier date known to me. *Abrolho de Babucca* is a large shoal, diamond-shaped with incurving lines.

This work is a translation, with the original chart, of a Dutch work. See Uricoechea's *Mapoteca Colombiana*, § 2, No. 7.

S. 1692? Archipelague du Mexique où sont les isles de Cuba, etc., chez Pierre Mortier. Amsterdam. On a large scale. *Abreoio ou Baxos de Bubueca*, a large kidney-shaped shoal. S. E. of it is a long and narrow shoal called *N. Riff*, and S. of that is a small round shoal with a rock in the centre, not named.

This map is contained in vol. i. of the *Atlas Nouveau par le Sr Sanson et H. Taillet, Paris*. No date of publication, but probably about 1692.

S. 1700. Edm. Halley. Nova et accuratissima totius terrarum Orbis Tabula Nautica. S. E. of Turks is an oval shoal, not named.

In Ottens' *Atlas Minor*, vol. iv.

S. 1703. Ier. Sellers and Ch. Price. A New General Chart of the West Indies. Some distance S. E. of Turks is a long and narrow shoal, widest toward the west, which is named *Ambrochos*. S. of it, and very near, is a small shoal not named. This must be North Riff, the present Silver Bank, and not *Mouchoir Carré*.

Found in *Navigantium atque Itinerarium Bibliotheca, or a complete Collection of Voyages*, etc. John Harris, London, 1705, vol. ii., p. 801.

1. 1703. Del Isle. Carte du Mexique et de la Floride. A loose sheet. *Mouchoir Quarrré*, a shoal without islands. S. E. from it is a square island, quite large, named *Caico de Plata*. A loose sheet map by Homann has the same arrangement.

1. 1717. N. de Fer. Le Golfe du Mexique. A loose sheet. *Ouvre d'oeil ou Mouchoir Quarrré*, a diamond-shaped shoal without islands. E. of it *I. Caico de Plata*.

There is a similar map in Ottens' *Atlas Minor*, vol. iv., 1730 (?). It is called *Carte de la Nouvelle France*.

S. 1720. Herman Moll. Map in two sheets. The second contains the West Indies. S. E. of Turks. *North Riff* and *South Riff* as shoals; no others given.

Another map by Moll, a large chart of the West Indies, without a date, but perhaps published in 1715, has only these two shoals. An inscription near N. Riff runs: "Here Sir Wm. Phips took up a vast quantity of silver from a Spanish Wreck in 1685." The northernmost of the two parts into which Silver Bank was formerly supposed to be divided is, after this time, often named *Phips' Plate*. I have seen a map which placed the scene of Phips' discovery off the coast of Venezuela. It will be remembered that this recovery of treasure secured for the bluff, illiterate, but ambitious seaman, his knighthood, and assisted him to become the first Royal Governor of Massachusetts Bay, under the charter of William and Mary.

S. 1722. Delisle. Carte d'Amérique. Loose sheet. E. of *Amana* a large shoal. Another copy printed by Covens and Mortier calls the shoal itself *Aumanc*.

S. 1722. C. Delisle. Carte de l'Isle de St. Domingue Dressée en 1722 pour l'usage du Roy sur les mémoires de M. Frezier Ingénieur de S. M. et autres assujettis aux observations Astronomiques. E. of *Turques* is a large shoal, irregularly diamond-shaped, with incurving sides. The main body of the shoal is named *les Abrouilles ou Mouchoir Quarrré*. The extreme south point is named *Basses de Babueca*. S. E. lies a smaller oval shoal, *le Varret*, and S. of that another, *Caye d'Argent ou Bayo de Plata*.

A loose sheet in the map portfolio "St. Domingo," (H.C.) Also in "La Galerie agréable du Monde, etc. en LXI'I Tomes. Leide. Pierre Vander Aa, vol. ii. (no date — after 1763).

1726. Le Grand Dictionnaire Géographique et Critique par M. Bruzen la Martinière. [Geographer to Philip V. of Spain.] 1726-1737. Ten vols. 8°. Vol. I. (1726). Article *Abriojos*. Ce mot qui signifie Ouvrez les yeux est le nom qu'on a donné

à divers écueils de la mer... Mr. De l'Isle écrit *Abroxio* le nom de l'isle ou écueil qui est entre les *Lucaies* au 22 d. de lat. au 308 d. de long. et à seize lieues de la côte Sept. de l'isle de S. Domingue. Vol. iii. 1730, under *Caicos* says, — lat. 21, N. of Gulf of Samana, is a little island called *Caico de Plata*.

4. 1730. Le Sr. d'Anville. Carte d'Isle de Saint Domingue, etc., dressée particulièrement sur la dernière Carte de Mr. Frezier et sur les mémoires de Mr. Bullet. Par le Sr. d'Anville Oct. 1730. Mouchoir Quarrré, a shoal of irregular shape, lat. 21, long. 308, contains four islands, the northernmost being the largest, though that is small.

3. 1731, le Sr. d'Anville. Map contained in *l'Histoire de l'Isle Espagnole ou de S. Domingue par le P. Pierre François Xavier de Charlevoix. Paris. 1730.* The map is dated 1731. It is like the large map by the Ottens (see below), but has three islands in *Mouchoir Quarrré*.

S. 1733. H. Popple. Map of North America, in 19 large and 5 small sheets. *Abrollio Shoal* is large, irregularly oval; with axis E. and W. It contains many reefs, or groups of rocks, but no islands. S. E. lies a long and narrow shoal, *North Riff* (in the shoal are the words *Plate Wreck*). S. W., and near to it, is *South Riff*, a round shoal.

S. 1740. Popple-Buache. Reduced from Popple, with corrections, by Phil. Buache. *Les Abrouilles, le Varret, Caye d'Argent ou Bayo de Plata.*

In P. Vander Aa's *Galerie du Monde*, vol. ii.

S. 1740. Stevens-Herrara. Map in *The General History of the Vast Continent and Islands of America*, etc., translated from Herrera by Capt. J. Stevens. It is a correction of Herrera's map. *Le mouchoir* is a small, nearly circular, shoal. It is Herrera's "*Abreojo*" with the island left out. S. W. of it are four islands.

S. About 1740? J. and R. Ottens. Nova Tabula exhibens insulas Cubam et Hispaniolam vulgo S. Domingo Dictam Insulas Lucaies seu Bahanamas, etc. E. of Turks, les Abrolles ou Mouchoir Quarrré, a large irregular shoal oblong from N. E. to S. W. A little S. E. is the *Cayes d'Argent ou Noord Riff*, and S. a small round shoal not named.

This map is found in the *Atlas Minor* published in four vols., by Josua and Reiner Ottens, at Amsterdam. It contains maps by various authors and of various dates, the latest 1740 I believe. Vol. iv. contains six maps of the West Indies: two of these have nothing E. of Turks. Another is "*Carte de la Nouvelle France, etc., dressée sur les mémoires les plus nouveaux recueillis pour l'établissement de la compagnie française occidentale*." This has *Caico de Plata* as in N. de Fer's map, 1717. There follow two copies of Blaeu's 1635 map, and finally the above.

S. 1741. Beaurain. Loose sheet map of the Atlantic Ocean. Paris.

S. 1742. Mouret and Page. A New Chart of the Bahama Islands and the Windward Passage. E. of Turks is a large shoal cut off by the eastern edge of the map. It contains rocks, but no islands. This is the earliest map I have seen which gives soundings. They vary from 10 to 14 fathoms in the shoal.

Contained in *The English Pilot. The 4th Book. West India Navigation from Hudson's Bay to the river Amazonas.* The work contains also *A correct chart of Hispaniola with the windward passage*, by C. Price. This is Delisle's map of 1725.

3. 1746. le Sr. d'Anville. Amérique Septentrionale in two sheets. E. of Turks is a triangular shoal *Mouchoir Quarrré* with base S. E., containing

three islands; the most easterly and largest, elbow-shaped. S. E. two shoals, *Cayes d'Argent*.

Loose sheet; also in *La Galerie agrtable du Monde*, Pierre Vander Aa, vol. i.

3. 1747. Eman. Bowen. Atlas to Bowen's *Complete System of Geography* (compiled from the 4th ed. of the Complete Geographer published under the name of Herman Moll). *Abrollio* has three isles. S. E. is *Phyn's Plat*.

The same map appears in Harris *Voyages*, 1764; ii. 38. There is a map by Bowen, of 1733, which has isles in *Mouchoir Carré*. I have not seen it.

5. 1749. Sr. Robert di Vaugondy. *Isole Antille. Fizzoletto Quadrado* has five islands. S. E. near Cape Samana, *caye d'Argent* a shoal. N. E. *Vigies*, a round shoal. In a loose sheet map by the same there are six islands.

Contained in *Storia degli Stabilimenti Europei in America*, vol. ii. Translation of Edmond Burke's *An Account of the European Settlements in America*.

3. 1753. Thos. Jefferys. Chart of the Atlantic Ocean. Loose sheet. London. *Obresio*, a triangular shoal with three isles. S. E. *Phips or Silver Key*, S. of the latter a round shoal.

Fourth chart of a series of six. Found also in his Atlas of 1768 and later.

7. 1754. Bellin. Map in *Allgemeine Historie der Reisen zu Wasser und zu Lande*, etc., Leipzig. 19 vols. *Viereckichte Schnupftuch*, an oblique parallelogram, contains six islands. S. E. lies the oblong *Silber Klippe* with one island.

8. 1755. Michel Seligman. Loose map. *Abrollio shoal*, — N. Riff; S. Riff.

3. 1755. Thomas Lopez y Juan de la Cruz. *Mapa Maritimo del Golfo de Mexico e Islas de la America para el uso de los Navagantes en esta parte del mundo*. Loose sheet. *El Pañuelo Quadrado* has three isles. The N. W. island has a rocky south-east shore. *Cayos de Plata* has no islands.

8. 1757. Covens and Mortier. Map of America after that by N. Witsen. Loose sheet. Amsterdam. *Caicos*, *Amarana*, *Abreio*, are all shoals.

8. 1757. J. Covens and C. Mortier. *Archipelague du Mexique*. Amsterdam. Loose sheet. S. E. of Turks is an oblong shoal from W. to E., in which are rocks, and a stranded vessel; it is named *North Riff*, *Sir Will Pryp's Platt Rack* or *Ambroches*. S. of this is a diamond-shaped shoal named *South Riff* at W. end and *Mouchoir Quarre* at E. end.

3. 1757. Covens and Mortier. *L'Amérique Septentrionale*. Amsterdam. Loose sheet. *Mouchoir Quaré* with three islands, *Cayes d'Argent* with none.

4. 1760. Thos. Jefferys. Map of S. Domingo. London. Loose sheet. Four islands in *Mouchoir Quarre*.

1. 1760. Sanson-Robert. *L'Amérique Septentrionale et Meridionale* par les S^{rs} Sanson, rectifiée par le S^r Robert. S. E. of Turks *le Mouchoir Quarre* with one island.

Found in *La Galerie agrtable du Monde*, by P. Vander Aa, Vol. i.

6. 1760. Sr. Robert de Vaugondy. *Amérique Septentrionale*. Le *Mouchoir Quarre* has six islands. S. E., *Caye d'Argent*. N. E., *Vigies*.

In Vander Aa's *Galerie du Monde*, vol. i.

Isle. 1762. II Gazzetier Americano. 1763. From an English original. London, 1662. Vol. ii. p. 5 says there are islands in the *Mouchoir Quarre* but their number is uncertain.

Vol. ii. of this work, in a copy in the Astor Library, contains a map which gives two islands in *Abreio*. S. E. is *Cayos de Plata*, a large group of rocks near St. Domingo.

1. 1763. Mat. Scutterius. North America. A loose sheet. *Ouvre d'Oeil*, a diamond-shaped shoal without islands. Directly E. an island *I. Carco de Plata*.

The same arrangement occurs in an anonymous map in the Parkman Collection, H. C.; in a map in Otters' Atlas, etc.

8. 1763. Delisle-Buache, l'Amérique. Delisle's map of 1722 corrected by Phil. Buache. An unnamed shoal E. of Turks.

3. 1763? Eman. Bowen and John Gibson. *An accurate map of North America* according to the treaty of Paris 1763. In several sheets. *Abreio* or *le Mouchoir Quarre* has three islands. S. E., *Cayos de Plata* or *Silver Keys*, also *Phips Keys*. E. *Vigies*. Between the latter two this note: *These are small rocky islands with oozy shores, where small ships if run aground are easily got off*.

Contained in Thomas Jeffery's American Atlas, published by Robert Sayer, 1768, in French and English.

3. 1763. Thos. Jefferys. Loose sheet. *Abreio* has three islands.

5. 1765. I. Palairret and L. Delarochette. North America. Loose sheet. *Mouchoir Quarre*, oval shoal, axis N. and S.

3. 1765. Isaak Tirion. *Kaart van de onderkoningschappen van Mexico*, etc. Amsterdam. *De vierkante Zakdock*, an irregular triangle with three islands. S. E. two shoals, *Zilver Klippen*.

Contained in *Hedendaagsche Historie of Tegenwoordig Staat van Amerika*. I. Tirion. Amst. 1760. 3 vols. Vol. i. p. 112.

3. 1768. Thos. Jefferys. *A general Topography of North America and the West Indies*. This Atlas contains the maps noticed under 1753 (Chart of Atlantic), and 1760 (St. Domingo), besides two new maps with three islands.

Jefferys was at work on a detailed Atlas of the West Indies, but it was not published until after his death. See 1775.

3. 1770? Rizzi Zannoni. *Carte Géohydrographique du Golfe du Mexique*, etc., *el Pañuelo Quadrado* very irregular, with three isles, one ten or twelve miles long. S. E. comes a shoal, *Cayos de Plata*.

In *Atlas moderne*, etc., par plusieurs Auteurs. Paris.

13. 1775. Thos. Jefferys. *The West India Atlas or a comprehensive description of the West Indies, illustrated with forty correct charts and maps taken from actual surveys*. By the late Thos. Jefferys. London, Sayer & Bennet. The most important map is *The Windward Passage from the East end of Cuba, and the North part of St. Domingo*. East of Turks is a large irregular diamond-shaped shoal, with the inscription: *Banc du Mouchoir Quarre, called also los Abrojos and formerly Baxos de Babueca*. This Bank is very little known. The soundings are taken from an English chart. It contains nine islands. Soundings vary from 9 to 15 fathoms. S. E. are three small islands called *The three Keys*, directly S. are soundings with the note: *Soundings taken by the French ships in 1753*. S. E. and near is an oblong shoal narrowing toward the east, with one island in the centre. Directly S. is a small oval shoal. Between these shoals the name: *Cayes d'Argent*.

Against the north shoal the names: *La Grande Caye* or *Caye du Nord* called by the English *Phips Plate* or *Plate Wreck*, also *North Riff*. Against the south shoal the names: *Caye du Sud* or *South Riff*, also *Petite Caye*. E. of these two shoals is a third small one named *Pracel*. Due N. of the last, in lat. 21, is a very small shoal, and the note: *A shoal where the Superb and Severn have anchored*.^{*} Sounding 8.

This atlas contains a *Chart of the Atlantic Ocean* which has N. E. of Severn Shoal a *Rocky bank*, where a Dutch ship was wrecked in 1701. Toward the close of the century Jeffery's maps were published in several editions by Laurie and Whittle, as in the *West India Atlas*, 1793; the *West India Islands*, 1799; and a *complete Pilot of the West Indies*. No date, but the maps are dated (like those in the other two) 1794. In the map of the *Windward Passage* the words "or Square Handkerchief" are inserted after "*Mouchoir Quarré*" in the titles of that shoal, and there are only seven islands in it.

3. 1776. Thos. Jefferys. Map of West Indies and Central America. Scale 80 miles to an inch. *Abrejo* or *le Mouchoir Quarré*. Oblong shoal; axis N. E. to S. W. S. E., three islands. S. E., oblong shoal, axis N. W. to S. E., named *Cayos de Plata*, also *Phips Keys*. S. a small shoal; E. a small shoal; both unnamed. Between the *Abrejo* and the *Cayos de Plata* is a note: *These are small rocky islands with oozy shores where small ships if run aground are easily got off*.

Contained in *The American Atlas*, composed from numerous surveys by Major Holland, Lewis, Evans, Wm. Scull, Henry Monson, Lieut. Ross, I. Cook, Michael Lane, Joseph Gilbert, Gardner, Hallock, etc., by the late Thos. Jefferys. London. 1776.

4. 1777. Danville-Pownall. London. N. and S. America in four sheets. E. S. E. from Turks *le Mouchoir Quarré* or *Abrejo* with four islands. S. E. *Silver Keys*, E. *Vigies*, both shoals without islands.

3. 1777. Thos. Kitchin. Map of West Indies. In *Mouchoir Quarré*, three or four isles. S. E., two small shoals, *La Plata Cayes*.

In Robertson's *History of America*. 1777.

3. 1778. Wm. Russell. Map of West Indies. *Abrejo*, by the French *le Mouchoir Quarré*, irregular, three or more islands. E. S. E. two shoals, *Cayos de Plata* or *Silver Key*. E., and at some distance, small shoal, *Vigia*.

In *History of America*. Russell. London, 1778. Vol. i., p. 516.

3. 1780. L. Denis. *Carte du Golphe du Mexique*. After those made by order of the Courts of France, Spain, and England. Loose sheet. *Abrejo* ou *le Mouchoir Quarré* peu connu, a triangular shoal with base N. and three islands. S. E., small shoal, *caye d'Argent* ou *Bayo de Plata*.

6. 1780. Rigobert Bonne. *Isle de Saint Domingue*. *Mouchoir Carré*, diamond-shaped with N. E. and S. W. points elongated. Four isles. S. E., *Cayes d'Argent*, long shoal W. to E., with two islands. S., small shoal not named.

No. 37 in the *Atlas de Toutes les Parties connues du Globe Terrestre dressé pour l'Histoire philosophique et politique des Etablissements et du commerce des Européens dans les deux Indes* par l'Abbé Thomas Guillaume François Raynal.

12. 1782. Sayer and Bennet. *A New General Chart of the West Indies from the latest marine Journals and Surveys*. London. Loose sheet. E. of Turks *Square Handkerchief* with eight isles. S. E., *Triangle*, a group of three islands. S. E., *Phips Plate* with one island and *Silver Keys*, a shoal.

^{*} This was in 1745. I am informed that the shoal is not now in existence.

8. 1782. Don Juan Lopez. *Carta Nautica que comprehende los de se mbrocaderos al mar del norte viniendo de la Jamaico*, etc. Madrid. Loose sheet. *Los Abrojos*, *Baxos de Babueca* ó *el Pañuelo cuadrado poco conocido*. Shoal on a large scale; eight islands; soundings 8-15. Like Jefferys' chart.

14. 1783. Andrew. *New map of the West Indies*. N. B. *West Indies from Lopez's four-sheet map*. *Cuba from a Spanish ms.*, all the sands from French and Dutch charts. S. E. of Turks is a shoal, larger than Turks, indistinctly diamond-shaped, named *Banc du Mouchoir Quarré* or *los Abrojos* & formerly *Baxos de Babueca*, *Square Handkerchief*, seven islands. S. E., *The Three Keys*, three isles. S. E., *Cayes d'Argent*, consisting of two shoals, *la Grande Cay* or *Caye du Nord* with one island, and *Caye du Sud*. Between them *White Keys*, three isles. E., *Pracel*; N., in lat. 21, *A shoal*.

3. 1784. Albert and Lotter. *A New and correct map of North America with the West India Islands*. According to the treaty of Paris, 1783. London. In three loose sheets. *Abrejo* or *le Mouchoir Quarré*, oval from N. E. to S. W. Three isles. S. E., two shoals near together, *Cayos de Plata* or *Silver Keys*, also *Phips Keys*. E., a shoal, *Vigies*.

3. 1785. Moithey. *Amerique Septentrionale*. Loose sheet. Three islands in *Mouchoir Quarré*. None in *Cayos d'Argent*.

8. 1787. M. de Chastenot-Puységur. *Le Pilote de l'Isle de Saint Domingue et des Débouquements de cette isle comprenant une carte de l'Isle de Saint Domingue et une carte des Débouquements depuis la caye d'Argent jusqu'à la partie ouest des Isles Lucayes*. Publié par ordre de Roi à Paris de l'imprimerie royale, 1787. fo. Contains charts and the ship's journal of the cruise of the C^{te} de Chastenot-Puységur, Major des Vaisseaux de Roi, on the corvette le Vautour 1784, 1785 made for the purpose of exploration. The expedition cruised over the Silver Bank, *Mouchoir Quarré*, and among Turks and Caicos I. The Journal, \$61 and \$62, gives positions and soundings for Silver Bank and *Mouchoir Carré*. It reports shoals and reefs, but no islands. *Mouchoir Quarré*, lat. 21°, long. 73°, axis E. N. E. to W. S. W., contains two shoaler spots on the northern edge. *Cayes d'Argent* is given as one large shoal, the supposed division having been proved not to exist.

The Journal was also published in 8° without maps.

1788. Dicionario Geográfico Histórico de las Indias occidentales ó América, etc., por el Coronel Don Antonio de Alcedo. Madrid. 1788. Article *Pañuelo Cuadrado*, vol. iv., p. 55, is as follows: *Baxo grande de arena que hace esta figura, y tiene en medio diferentes Isolotes, algunos los llaman los Abrojos, y en él se han perdido muchas embarcaciones, están al N. del Cabo Rojo de la Isla Española y al E. de los Caicos*.

There is an English translation by G. A. Thompson. London. 1814.

8. 1789. The American Pilot. Contains a map of the West Indies taken from an English publication of 1789. *Square Handkerchief*, irregular diamond-shaped, five islands. S. E., *Triangle*, three isles. S. E., two shoals of similar shape with narrow passage between them, *Phips Plate* and *Silver Key*.

11. 1795. B. Edwards. Large map of West Indies. *Banc du Mouchoir Quarré* or *los Abrojos*. *Baxos de Babueca*. *Square Handkerchief*. Shoal of rather oval form, axis N. E. to S. W. with seven islands. S. E., 3 *Keys*, three islands. S. E., *la Grande*

Caye or Caye du Nord with one island. S., *Caye du Sud*. E., *Pracel*. N., *A Shoal*.

This is contained in Bryan Edward's *History of the West Indies*. London. 1795. In 1796 the map was published in reduced form by F. A. Güssefeld at Weimar in Sprengel's German translation of Muñoz's *Nuevo Mondo*. In 1810 a reduced copy appeared in *A New Atlas of the British West Indies with a whole sheet map of the West India Islands, etc.*, to accompany the Philadelphia edition of Edward's *History of the West Indies*. Charleston, 1810.

10. 1795. **S^r. de la Rochette**. Large map of North America, in three sheets. *Le Mouchoir Quarrré* or *Abrejos*, triangular with base to S. E., six islands. E. N. E. of this and N. of Phips' Plate is *Severn and Superb Shoal*. S. E. of Abrejos, *Triangle*, three isles. S. E., *Phips' Plate* with one island, and *Silver Key*. E. N. E., *Dutch Shoal*, small.

1. 1795. **Atlas to Guthrie's System of Geography**. London. Map. 24. One island in *Mouchoir Carré*.

The map that accompanies an American Edition of Guthrie has six islands in *Mouchoir Carré*, and the *Triangle* of three islands.

11. 1796. **Captain Robert Bishop, John Stevenson** and others. *The Atlantic Pilot*. London. General map of West Indies. *Mouchoir Carré* has eight islands. S. E., *The three Keys*. S. E., *Phips' Plate* or *North Riff* and *South Riff*. E., *Pracel*. N., *Severn Shoal*, the last four without islands.

The general map is not dated. One of the others was drawn in 1765. The Special map of Turks was based on the survey of the sloops "l'Aigle" and "l'Emeraude," in 1753, with later corrections.

3. 1796. **American Atlas**. New York. *Banc du Mouchoir*, three islands. S. E., *la Caye du Nord*. E., *Pracel*.

3. 1796. **Karte von Mittel Amerika oder West Indien**. *Le Mouchoir Quarrré* has three islands.

3. 1796. **Güssefeld**. *Nord- und Süd-Amerika*. Nürnberg. Shoal with three islands S. E. of Turks.

11. 1800. **Jean Baptiste Nicolas Denis**, d'après de Manneville. *The Oriental Pilot or East India Directory*, etc. London. Map of the Atlantic. Seven islands in *Mouchoir Quarrré*; three in *Triangle*; one in *Phips' Plate*. *Severn Shoal* is given.

22. 1802. **C. G. Richard**. *Karte von Nord Amerika*. Weimar. Loose sheet. *Mouchoir Quarrré* oder *los Abrolhos* contains seven islands. S. E., 3 *Keys*, three islands. S. E., *Caye d'Argent*, three quite large islands and eight or nine smaller ones.

8. 1803. **A. Arrowamith**. *Chart of the West Indies and Spanish Dominions in North America*. E. of Turks is a round shoal without name or soundings. S. of this and S. E. of Turks *Mouchoir Quarrré* or *Abrejos*, oblong from W. to E.; no islands, but one shoaler spot. Soundings are given. S. E., *Bayo de la Plata*, one shoal as in Chastenet-Poiségu's Charts. S. E., *Bayo Navidad* or *Bank of the Nativity*, an oval shoal with soundings 6 to 17. E. of *Mouchoir Quarrré* and N. N. E. of *Navidad* is *Shoal where ships have anchored*.

8. 1802. **Sorel**. *Carte Particulière de l'isle de Saint Domingue* from ms. plans of C^m. Sorel, Ingénieur des colonnes, Publiée par ordre du contre Amiral Decres Ministre de la Marine et des Colonnes. Paris. An. XI. Only a corner of *Mouchoir Carré* given. *Cayes d'Argent* has the form which Chastenet Puysegur gives it.

8. 1806. **Map of West Indies and Mexico**. Paris. Loose sheet. *Mouchoir Quarrré* is cut by a channel in the middle. S. E., *Caye d'Argent*. S. E., *Caye de Noel*, a shoal.

8. 1806. **H. F. A. Stieler**. *Karte von West Indien* entworfen und gezeichnet Nov. 1806. Nürnberg, 1809. *Mouchoir Carré* divided into two parts. S. E., *Caye d'Argent* and *Bayo de la Plata*. S. E., *Bayo Navidad*.

8. 1811. **Pinkerton**. Map of the West Indies. *Abrejos* has no islands. S. E., *Bayo de la Plata*. S. E., *Bank of the Nativity*.

Contained in Pinkerton's *Modern Geography*, 3d ed. London. 1811; p. 443.

8. 1814. **Sam. Lewis**. Wall map of United States and West Indies.

4. 1814. **Karte von Nord Amerika**. Weimar Geographisches Institut. Loose sheet. S. E. of Turks, *Sand Key*, a shoal. E. S. E., four islands named *Mouchoir Quarrré* od. *los Abrolhos*. S. E., two round shoals, *Caye d'Argent* Nos u. *N. W. sp.*

7. 1822. **Carey and Lea**. *Complete Historical, Chronological, Geographical, American Atlas*. Philadelphia. Map 35, *West Indies*, no islands in *Square Handkerchief*. Map 40, *Cuba and the Bahama Islands*, seven islands in *Square Handkerchief*, which is oblong from W. to E.

8. 1838. **Bradford**. *Atlas of the United States*.

8. 1842. **Morse**. *Atlas of the United States*. Same in 1845.

3. 1849. **Colton**. *Map of United States*. Near *Mouchoir Quarrré* Passage, on the E., are traces of three islands.

*** Maps, the date of which has not been ascertained.

8. R. P. **Labat**. *L'Isle de Saint Domingue ou Espagne*. A loose sheet, but taken from a book. *Le Mouchoir Quarrré* ou *l'ouvre d'Oeil*. *Banc de Sable* et *Roches sous l'Eau*. A square shoal bearing the word *Cocina*.

8. **Voogt and Keusen**. *Pas Kaart van West Indien Belfende sou Deszelfs Vaste Kusten als a'Onder behoorende Eylanden van de Noord Ocean door Vooght Geometra, l'Amsterdam, by Johannes van Keusen Bock en Zee Kaart Verkooper en Groodboogh maaker aande Nieuwburgh inde Gekroonde Lootsman met privilegie Voor 15 Jaaren*. 2 vols. Special map, No. iii., which is printed upside down, takes in *Abreolo* off *Baxos* of *Bahueca*, a large shoal E. of Turks, diamond-shaped, with lines curving in. The Atlas belongs in the latter half of the seventeenth century.

8. **Map of the West Indies** and part of the United States. Before acquisition of Louisiana. *Mouchoir Quarrré*. S. E., *Bayo de la Plata*. S. E., *Bayo Navidad*.

13. **M. Mentelle**. *Carte de Golfe du Mexique et des Isles Antilles*. Paris. Loose sheet. *Square Handkerchief*, an irregular diagonal with nine islands. S. E., *Triangle* with three islands. S. E., *Phips' Plate* with one island. S., *Silver Keys*, no island.

*** The following figures show the growth of the belief that there were islands beyond Turks to the S. E.:—

Of maps examined dating in the	No islands are given on	Islands are given on
XVI Cent.	13	2
XVII "	9	2
XVIII "	15	44
XIX " (1st half)	8	4

The map by Juan de la Cosa, that by Peter Martyr, and the Portuguese Portulano, of 1501-4, are omitted as doubtful. Hondius' map of 1600(?), which shows one island, is classed in the sixteenth century, but it may belong to the seventeenth.

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No. 15.



LIST OF AMERICAN AUTHORS IN GEOLOGY AND PALÆONTOLOGY.

By J. D. WHITNEY.

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UNIVERSITY PRESS: JOHN WILSON AND SON.
1882.

Already issued or in preparation :

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
- *7. JAMES M. PEIRCE. References in Analytic Geometry.
- *8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
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10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.
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12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
- *13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.
14. WILLIAM H. TILLINGHAST. Notes on the Historical Hydrography of the Handkerchief Shoal in the Bahamas.
15. J. D. WHITNEY. List of American Authors in Geology and Palæontology.
- *16. RICHARD BLISS, JR. Classified Index to the Maps in Petermann's Geographische Mittheilungen. 1855-1881.
- *17. JUSTIN WINSOR. A List of the most useful Reference Books.

LIST OF AMERICAN AUTHORS IN GEOLOGY AND PALÆONTOLOGY.

By J. D. WHITNEY.

This list includes the names of persons born in the United States who have contributed to the progress of geological and palæontological science. There are added a few names of those who, although born in foreign countries, spent the larger portion of their lives and published chiefly here.

Of the authors named, there are those who have worked, either at the same time or at different periods, in various departments. Some have also devoted themselves more or less to literature, history, politics, or even theology. This happened frequently in the earlier days of scientific study in this country. When such has been the case, there will be found at the end of the paragraph, enclosed in parentheses, the names of the different branches cultivated by the persons mentioned. It is intended that these shall be arranged, approximately, at least, in the order of the importance of the works indicated, the most important being put first.

The abbreviations are usually such as will be easily understood. A. C. is a reference to an article in the "American Cyclopædia," edition of 1873-76; P., to one in Foggendorff's "Handwörterbuch der exacten Wissenschaften"; D., to one in Drake's "Dictionary of American Biography"; R.S.C., to the Royal Society's "Catalogue of Scientific Papers." To the last-named work, and to Prime's "Catalogue of Official Reports upon Geological Surveys of the United States and Territories," this list of names may be considered as supplementary. With the further aid of these documents, an inquirer may easily trace out most of what has been published in geology and palæontology in this country. As additional information, references to papers published since the appearance of the Royal Society's Catalogue are given in some cases, enclosed in brackets, and also the names of books or pamphlets, not official in character, and therefore not included in Prime's Catalogue. Following the names of deceased authors, under the head of biographical details (Biog.) will be found references to publications containing obituary or biographical notices of them, where such have been published. Where no star precedes a name, and at the same time no place of residence is given, it may be inferred that no positive information has reached the compiler of this list in regard to the person in question. Of several of the older contributors to geology in this country no trace has been obtained beyond the titles of their volumes or communications. Information in regard to such persons will be gladly received, and utilized at some future time.

Abbott, Charles Conrad; Trenton, N. J. (Prehistoric man).

***Adams, Charles Baker**; d. 1853: St. Geol. Vermont; Prof. Middlebury and Amherst colleges: A.C., P., D., R.S.C., i. — Biog.: A.J.S. (2) xv, 292; Am. Jour. Conchol., i, 191. (Zool., Geol.)

Agassiz, Alexander; (b. Switz.) Cambridge, Mass.: Curator Mus. Comp. Zool.: R.S.C., vii. (Zool., Pal., Phys.-Geog., Geol.)

***Agassiz, Jean Louis Rodolphe**; (b. Switz.) d. 1873: Prof. Harv. Univ.: A.C., P., D., R.S.C., i, vii. — Biog.: A.J.S. (3) vii, 77; Proc. Bost. Soc. Nat. Hist., xvi, 210; Smithsonian Rept., 1873, 198; Proc. Am. Acad., ix, 310; Trans. Geol. Soc. Edinb., ii, 285; Mem. Soc. Phys. Genève, xxiii, 471; Qu. Jour. Geol. Soc. London, xxx, xxxvii.; Rev. des Deux Mondes (3) x (1875) 5, 539; Bibliothèque Universelle, Arch. des Sci., Mai, 1877. (Zool., Pal., Geol.)

***Akerly, Samuel**; d. ? : [Am. Mineral. Jour., i, 11, 191.]

***Alger, Francis**; d. 1863: R.S.C., i, vii. — Biog.: A.J.S. (2) xxxviii, 302, 449; Proc. Am. Acad., vi, 294; Proc. Bost. Soc. Nat. Hist., x, 2. (Mineral., Geol.)

Allen, Joel Asaph; Cambridge, Mass.: Asst. Mus. Comp. Zool.: R.S.C., vii. (Zool., Pal., Geol.)

Allen, John H.: R.S.C., i.

***Andrews, Ebenezer Baldwin**; d. 1880: Asst. (Second) Geol. Surv. Ohio; Prof. Marietta Coll.: R.S.C., i, vii. — Biog.: A.J.S. (3), xx, 255.

Andrews, Edmund; Chicago, Ill.: Prof. Med. Coll. Chicago: R.S.C., i, vii. (Med., Geol.)

***Anthony, John Gould**; d. 1877: Asst. Mus. Comp. Zool. Cambridge: R.S.C., i, vii. (Zool., Pal.)

Antisell, Thomas, Washington, D. C.: former geol. to U. S. Pacific Railroad Surveys; now chemist to U. S. Pat. office: R.S.C., i, vii. (Chem., Phys., Geol.)

Ashburner, Charles Albert; Philadelphia, Penn.: Asst. (Second) Geol. Surv. Penn.

***Atwater, Caleb**; d. 1867: D., R.S.C., i. (Med., Bot., Hist., Arch., Geol.)

Aughey, Samuel; Lincoln, Neb.: Prof. Univ. Nebraska: R.S.C., vii.

***Bailey, Jacob Whitman**; d. 1857: Prof. West Point U. S. Mil. Acad.: D., R.S.C., i, vi add., vii. — Biog.: A.J.S. (2) xxiii, 447; Proc. Bost. Soc. Nat. Hist., vi, 173. (Micros. Pal.)

Bailey, Loring Woart; Fredericton, N. B.: Prof. Univ. New Brunswick: R.S.C., vi add., vii. (Geol., Bot., Min., Chem.)

Bannister, Henry Martyn; Kankakee, Ill.: former Asst. Geol. Surv. Illinois: R.S.C., vii. (Zool., Geol.)

***Barnes, Daniel Henry**; d. 1828: R.S.C., i. — Biog.: A.J.S. (1) xv, 401. (Zool., Geol.)

Barrett, Simeon T.; Port Jervis, N. Y. [Ann. Lyc. Nat. Hist. N. Y., xi, 290; Ann. N. Y. Acad. Sci., i, 121.]

***Barton, Benjamin Smith**; d. 1815: Prof. Med. Coll. Phil.: D., R.S.C., i. (Med., Zool., Bot., Mineral., Geol.?)

***Barton, David Walker**; d. 1863: R.S.C., i.

- Barton**, George Hunt; Honolulu, H. I.: Asst. Govt. Topog. Surv.
- ***Beck**, Lewis Caleb; d. 1853: St. Mineralogist N. Y.; Prof. Rutgers Coll., N. J., and Albany Med. Coll.: P., D., R.S.C., i. — Biog.: A.J.S. (2) xvi, 149.
- Beckwith**, John: R.S.C., i.
- Benton**, Edward Raymond; Rochester, N. Y.: Prof. Rochester Univ. [Bull. Mus. Comp. Zool., v, 17; Proc. Bost. Soc. Nat. Hist., xx, 416.]
- Blake**, James; San Francisco, Cal.: R.S.C., i, vii. (Chem., Zool., Geol.)
- Blake**, John Harrison; Boston, Mass.: R.S.C., i, iii.
- Blake**, Theodore Augustus; New Haven, Conn.: R.S.C., vii. (Min.-Eng., Geol.)
- Blake**, William Phipps; New Haven, Conn.: former Geol. U. S. Pacific Railroad Surv.; R.S.C., i, vi add. vii. (Mineral., Min.-Eng., Geol.)
- Blandy**, John F.; Prescott, Arizona: R.S.C., i.
- Booth**, James Curtis; Philadelphia, Penn.: former St. Geol. Delaware; now Assayer U. S. Mint: D., R.S.C., i. (Chem., Mineral., Geol.)
- Borden**, William Wallace; New Providence, Clark Co., Ind.: former Asst. Geol. Surv. Indiana.
- Bouvé**, Thomas Tracy; Boston, Mass.: former Prest. Bost. Soc. Nat. Hist.: R.S.C., i, vii.
- ***Bradley**, Frank Howe; d. 1879: Asst. Geol. Surv. Ill., U. S. Geol. Surv.; Prof. Univ. E. Tenn.: R.S.C., i, vii. — Biog.: A.J.S. (3) xvii, 415.
- Brewer**, William Henry; New Haven, Conn.: former Asst. Geol. Surv. Cal.; now Prof. Sheffield Sci. Sch.: R.S.C., i, vii. (Bot., Phys.-Geog., Geol.)
- Brigham**, William Tufts; Boston, Mass.: R.S.C., vii. (Bot., Geol.)
- Briggs**, Charles; North Rochester, Mass.: former Asst. (First) Geol. Surv. Ohio, and Geol. Surveys N. Y., and Virginia.
- Britton**, Nathaniel Lord; New York, N.Y.: [Ann. N. Y. Acad. Sci., ii, 161.]
- Broadhead**, Garland Carr; Pleasant Hill, Mo.: former Asst. Geol. Surv. Illinois; now St. Geol. Missouri: R.S.C., vii.
- Brooks**, Thomas Benton; Newburgh, N. Y.: former St. Geol. Michigan.
- ***Brown**, A. J.; d. 1875: [Trans. Am. Inst. Min. Eng., ii, 215.]
- ***Bruce**, Archibald; d. 1818: Prof. Coll. Phys. and Surg., N. Y.; [founder and editor of "American Mineralogical Journal" (1814)]: D., R.S.C., i. — Biog.: A.J.S. (1) i, 299.
- Buckley**, Samuel Botsford; Austin, Texas: St. Geol. Texas: R.S.C., i, vii. (Entom., Bot., Geol.)
- ***Burbank**, Levi Sumner, d. 1880: Prest. Paducah Coll., Kentucky: R.S.C., vii.
- Cabot**, Edward Clark; Brookline, Mass.: R.S.C., i.
- Calvin**, Samuel; Iowa City, Iowa: Prof. St. Univ. Iowa; Curator State Cabinet.
- Campbell**, John Lyle; Lexington, Va.: Prof. Wash. and Lee Univ.
- Carll**, John Franklin; Pleasantville, Penn.: Asst. (Second) Geol. Surv. Penn.
- ***Casseday**, S. A.; d. 1860: R.S.C., i. — Biog.: A.J.S. (2) xxxi, 155. (Pal.)
- Chamberlin**, Thomas Chrowder; Beloit, Wis.: Prof. Beloit Coll.; St. Geol. Wisconsin: R.S.C., vii.
- Chance**, Henry Martyn; Philadelphia, Penn.: Asst. (Second) Geol. Surv. Penn.
- Chapin**, A. B.: R.S.C., i.
- Christy**, David: R.S.C., i. [Letters on Geology, giving an Outline of the Geology of the West and Southwest, together with an Essay on the Erratic Rocks of North America, Rossville [Ohio] 1848.]
- Church**, John Adams; New York, N. Y.: former Prof. St. Univ. Ohio. (Min.-Eng.) [The Comstock Lode: Its Formation and History, New York, 1879.]
- ***Cleaveland**, Parker; d. 1858: Prof. Bowdoin Coll.: A.C., P., D., R.S.C., i. — Biog.: Proc. Am. Acad., iv, 226: A.J.S. (2) xxvi, 448. (Mineral., Meteorol., Geol.)
- ***Clemson**, Thomas G.; d.?: R.S.C., i. (Chem., Mineral., Geol.)
- Collett**, John; Indianapolis, Ind.: former Chief of St. Bureau of Statistics and Geol.; now St. Geol. Indiana.
- Comstock**, Theodore Bryant; Eureka, San Juan Co., Colorado: former Prof. Cornell Univ.: R.S.C., vii.
- Condon**, Thomas; Eugene City, Or.: St. Geol. Oregon; Prof. St. Univ. Oregon.
- ***Conrad**, Timothy Abbott; d. 1877: D., R.S.C., ii, vii. — Biog.: A.J.S. (3) xiv, 247. (Pal.)
- Cook**, George H.; New Brunswick, N. J.: Prof. Rutgers Coll.; St. Geol. New Jersey: R.S.C., ii, vi add.
- Cooper**, James Graham; Hayward's, Alameda Co., Cal.; former Asst. U. S. Pacific Railroad Surv.; Asst. Geol. Surv. Cal.: R.S.C., ii, vii. (Zool., Pal., Bot., Geol.)
- ***Cooper**, Thomas; (b. England) d. 1839: Prof. and Prest. Columbia Coll. S. C.: R.S.C., ii, vii. — Biog.: A.J.S. (1) iv, 239. (Pol., Hist., Chem., Geol.)
- ***Cooper**, William; d. 1864: R.S.C., ii. (Zool., Pal.)
- Cope**, Edward Drinker; Philadelphia, Penn.: A.C., R.S.C., ii, vi add., vii. (Zool., Pal.)
- ***Cornelius**, Elias; d. 1832: R.S.C., iii.
- ***Cotting**, John Ruggles; d. 1867: St. Geol. Georgia. — Biog.: A.J.S. (2) xlv, 141.
- Cox**, Edward Travers; San Francisco, Cal.: former Asst. Geol. Surveys Kentucky and Arkansas; St. Geol. Indiana: R.S.C., vii.
- Cozzens**, Issachar: R.S.C., ii. [Geological History of Manhattan, 1843.] (Chem., Pal., Zool.)
- Crandall**, Albert Rogers; Lexington, Ky.: former Asst. Geol. Surv. Kentucky; now Prof. St. Univ. Kentucky. (Geol., Pal.)
- ***Crawe**, Ithamar B.; d. 1847: R.S.C., ii. — Biog.: A.J.S. (2) iv, 300. (Bot., Geol., Min.)

- Crosby**, William Otis; Boston, Mass.
- ***Curry**, Richard O.; d. ? : Prof. E. Tenn. Univ. [A Sketch of the Geology of Tennessee, 1857.]
- Cutting**, Hiram Adolphus; Lunenburg, Essex Co., Vt. : St. Geol. Vermont; Prof. Lewis Coll., Northfield, Vt.
- Dale**, Thomas Nelson; Newport, R. I.
- Dall**, William Healey; Washington, D. C. : Asst. U. S. Coast and Geol. Surv. : R.S.C., vii. (Zool., Phys.-Geog., Geol.)
- Dana**, Edward Salisbury; New Haven, Conn. : former Geologist to Ludlow's U. S. Black Hills Ex.; now Asst. Prof. Yale Coll. (Mineral, Geol.)
- Dana**, James Dwight; New Haven, Conn. : former Geol. to U. S. Ex. Expedition; now Prof. Yale Coll. : A.C., P., D., R.S.C., ii, vii. (Geol., Mineral., Zool.)
- ***Dana**, James Freeman; d. 1827 : Prof. Dartmouth Coll.; Prof. N. Y. Coll. Phys. and Surg. : D., R.S.C., ii. (Chem., Bot., Geol.)
- ***Dana**, Samuel Luther; d. 1868 : D., R.S.C., ii. — Biog. : Proc. Am. Acad., viii. 26. (Chem., Geol.)
- Daniels**, Edward; former St. Geol. Wisconsin.
- Davis**, William Morris; Cambridge, Mass.
- Day**, Fisk Holbrook; Wauwatosa, Wis. [Trans. Wis. Acad. Sci. Arts and Letters, iv, 113.]
- ***Deane**, James; d. 1858 : A.C., D., R.S.C., ii. — Biog. : A.J.S. (2) xxvi, 155; Proc. Bost. Soc. Nat. Hist., vi, 391.
- ***DeKay**, James E.; d. 1851 : Pal. Geol. Surv. New York : D., R.S.C., ii. — Biog. : A.J.S. (2) xiii, 300. (Zool., Pal.)
- Delafield**, John : R.S.C., vi add.
- Dennistott**, Goldsmith : R.S.C., vi add. [Survey of Steuben Co., in Ann. Rep. N. Y. St. Agri. Soc.; of Orange Co., 1862.]
- Derby**, Orville Adelbert; Rio de Janeiro, Brazil (Museo Nacional) : former Asst. Geol. Surv. Brazil. [A.J.S. (3) xvii, 464, xviii, 310, xix, 236, 324, xxiii, 97, 178.]
- Deweese**, John H. : Asst. (Second) Geol. Surv. Penn.
- ***Dewey**, Chester; d. 1867 : Prof. William's Coll. and Univ. Rochester : D., R.S.C., ii, vii. — Biog. : A.J.S. (2) xlv, 122; Proc. Am. Acad., viii, 25; Smithsonian. Rept., 1870, 231. (Bot., Min., Geol.)
- ***Dickson**, John; d. 1847 : Prof. Coll. S. C. : R.S.C., ii.
- Diller**, Joseph Silas; Cambridge, Mass.
- ***Dobson**, Peter; d. ? : R.S.C., ii.
- ***Drake**, Daniel; d. 1852 : Prof. Jeff. Med. Coll. Phila.; Prof. Med. Coll. Cincinnati; Prof. Med. Coll. Ohio : D., R.S.C., ii. — Biog. : Memoir of, by E. D. Mansfield, Cincinnati, 1855; see also Gross's Am. Med. Biog. (Med., Hist., Geog., Geol.)
- ***Ducatel**, Julius Timoleon; d. 1849 : Prof. Univ. Maryland; St. Geol. Md. : R.S.C., ii. — Biog. : A.J.S. (2) viii, 146.
- Dutton**, Clarence Edward; Washington, D. C. : Capt. Ordnance Corps U. S. A.; Asst. U. S. Geol. Surv. : R.S.C., vii.
- ***Dwight**, Henry Edwin; d. 1832 : R.S.C., ii.
- ***Dwight**, Sereno Edwards; d. 1850 : R.S.C., ii.
- Dwight**, William Buck; Poughkeepsie, N. Y. : Prof. Vassar Coll.
- Eames**, H. H. : former St. Geol. Wisconsin.
- ***Eaton**, Amos; d. 1842 : Prof. Pol. Inst. Troy, N. Y. : A.C., P., D., R.S.C., ii. — Biog. : A.J.S. (1) xliii, 215. (Bot. Geol.)
- ***Eaton**, James Howard; d. 1877 : Prof. Beloit Coll. Wis. — Biog. : Trans. Wis. Acad. Sci., iv, 314.
- Elrod**, Moses N.; Orleans, Ind. : former Asst. Geol. Surv. Indiana.
- Emerson**, Benjamin Kendall; Amherst, Mass. : Prof. Amherst Coll. : R.S.C., vii. [A.J.S. (3) xxiii, 302.]
- ***Emmons**, Ebenezer; d. 1863 : Prof. Williams Coll. and Albany Med. Coll.; St. Geol. N. Y. and N. C. : D., R.S.C., ii. — Biog. : A.J.S. (2) xxxvii, 151.
- Emmons**, Samuel Franklin; Cheyenne, Wyoming Ter. : former Asst. Fortieth Par. Surv., and U. S. Geol. Surv.
- Endlich**, Frederic Miller; Reading, Penn. : former Asst. U. S. Geol. Surv.
- Engelmann**, Henry; La Salle, Ill. : former Asst. Geol. Surv. Illinois; Geol. to U. S. Pacific Railroad Surveys.
- ***Evans**, John; d. 1861 : Asst. U. S. Geol. Surv. Chippewa Land Dist.; in charge U. S. Land Office Surv. Oregon : D., R.S.C., vii. — Biog. : A.J.S. (2) xxxii, 311.
- ***Featherstonhaugh**, George William (b. Eng.); d. 1866 : U. S. Geologist : D., R.S.C., ii. — Biog. : A.J.S. (2) xliii, 135.
- Finch**, John : R.S.C., ii [several contributions to A.J.S. (1) and Travels in the U. S. A. and Canada, with notice of their Min. and Geol., London, 1833.]
- Fontaine**, William Morris; Prof. Univ. of Virginia.
- Ford**, Silas Watson; Troy, N. Y.; [A.J.S. (3) i, 472, ii, 32, v, 211, vi, 134, ix, 264, xi, 369, xiii, 141, 265.]
- Forman**, Joshua : R.S.C., ii.
- ***Foster**, John Wells; d. 1873 : Asst. (First) Ohio Geol. Surv.; U. S. Geol. for L. Sup. Land Dist. : A.C., R.S.C., ii, vii. — Biog. : A.J.S. (3) vi, 159.
- Frazer**, Persifor; Philadelphia, Penn. : Asst. (Second) Geol. Surv. Penn.; Prof. Univ. Penn. : R.S.C., vii.
- Freeman**, H. C.; Alta Pass, Union Co., Ill. : former Asst. St. Geol. Surv. Illinois.
- Furman**, J. H.; Presidio del Norte, Texas. [Trans. N. Y. Acad. Sci. 1881, 1882, 16.]
- ***Gabb**, William More; d. 1878 : Asst. Cal. Geol. Surv.; in charge of St. Domingo and Costa Rica Geol. Surveys : R.S.C., ii, vii. — Biog. : A.J.S. (3) xvi, 164.
- Gage**, James R.; St. Louis, Mo. : Asst. Geol. Surv. Mo. [Trans. Am. Inst. Mg. Eng., iii, 116.]

- *Gebhard, John**; d. 1854: R.S.C., ii.
- Geddes, George**; Fairmount, Onondaga Cy., N. Y.: R.S.C., ii, vi add. [Surv. of Onondaga County in Ann. Rep. N. Y. St. Agri. Soc., 1860.]
- *Geddes, James**; d. 1838: R.S.C., ii (Eng., Geol., Memb. Cong., Judge).
- Gibbes, Lewis R.**: R.S.C., ii, vii. (Phys., Math., Bot., Mineral., Zool., Geol.)
- *Gibbes, Robert Wilson**; d. 1866: Prof. S. C. Coll. — Biog.: A.J.S. (2) xlii, 435. (Chem., Zool., Pal., Hist.)
- *Gibbs, George**; d. 1833: P., R.S.C., ii. — Biog.: A.J.S. (1) xxv, 214. (Mineral.)
- *Gibbs, George**; d. 1873; R.S.C., ii, vii. — Biog.: Smithson. Rept., 1873, 219. (Hist., Archæol., Geog., Geol.)
- *Gibson, John Bannister**; d. 1853: Jurist. and Ch. Just. Sup. Ct. Penn.; D., R.S.C., ii.
- Gilbert, Grove Karl**; Washington, D. C.: former Asst. (Second) Geol. Surv. Ohio; now Asst. U. S. Geol. Surv.: R.S.C., vii.
- Gill, Theodore**; Washington, D. C.: R.S.C., ii, vii. (Zool., Pal.)
- Goodyear, Watson Andrews**; New Haven, Conn.: former Asst. Cal. Geol. Surv.; St. Geol. San Salvador.
- *Godon, Sylvain** (b. France); d. 1840: R.S.C., ii.
- *Graham, George**; d. 1881: R.S.C., ii. — Biog.: Jour. Cinn. Soc. Nat. Hist., iv, 85.
- Green, Henry A.**; Atco, New Jersey: former Asst. Geol. Surv. Illinois.
- Grinnell, George Bird**; New York, N. Y.: Pal. to Ludlow's U. S. Black Hills Ex.
- Grote, Augustus Radcliffe**; New Brighton, N. Y.
- Guyot, Arnold Henry** (b. Switz.); Princeton, N. J.: Professor Princeton Coll., N. J.: A.C., P., D., R.S.C., iii, vii. (Phys.-Geog., Meteorol., Geol.)
- Hager, Albert David**; Chicago, Ill.: former Asst. Geol. Surv. Vt.; St. Geol. Missouri.
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- *Haldeman, Samuel Stehman**; d. 1880: Asst. (First) Geol. Surv. Penn., and Geol. Surv. N. J.: Prof. Univ. Pa., Agr. Coll. Pa., and Delaware Coll. — Biog.: A.J.S., (3) xx, 352; Proc. Am. Phil. Soc. xix, 279. (Zool., Phil., Geol.)
- Hale, C. S.**: R.S.C., iii.
- Hale, John M.**: R.S.C., vii.
- Hale, Moses**: R.S.C., iii.
- Hall, Charles Edward**; Philadelphia, Penn.: Asst. (Second) Geol. Surv. Penn.
- Hall, Christopher Webber**; Minneapolis, Minn.: Prof. St. Univ. Minnesota.
- *Hall, Frederick**; d. 1843: Prof. Middlebury Coll. Vt., Trin. Coll. Conn., Col. Coll., Washington: D., R.S.C., iii. — Biog.: A.J.S. (1) xlv, 404, xlvii, 139. (Min., Pal., Econ.-Geol.)
- Hall, James**; Albany, N. Y.: former St. Geol. N. Y. and Iowa; Asst. U. S. Geol. Surv. L. Supr. Land Dist.; now Prof. Pol. Inst. Troy, N. Y., St. Pal. N. Y. (Pal., Geol.)
- Hall, John**: R.S.C., iii.
- Hambach, G.**: St. Louis, Mo. [Trans. St. Louis Acad. Sci., iv, 145.]
- Hamlin, Charles Edward**; Cambridge, Mass.: former Prof. Waterville Coll., Maine; now Asst. Mus. Comp. Zool. [Bull. Mus. Comp. Zool., vii, 189.]
- Hanchett, A. H.**: former St. Geol. Minnesota.
- Harger, Oscar**: New Haven, Conn. [A.J.S. (3) vii, 219.]
- *Harlan, Richard**; d. 1843: R.S.C., iii. — Biog.: A.J.S. (1) xlvi, 216.
- Harper, L.**: former St. Geol. Mississippi: R.S.C., iii.
- Hawes, George Wesson**; Washington, D. C.; Curator Min., U. S. Nat. Museum.
- Hawn, Frederick**; Leavenworth, Kansas: former Asst. Geol. Surv. Missouri: R.S.C., iii.
- *Hartt, Charles Frederick**; d. 1878: Prof. Cornell Univ., Ithaca, N. Y.: Geol. to Brazilian Govt. — Biog.: A.J.S. (3) xv, 324; Proc. Bost. Soc. Nat. Hist., xix, 338.
- Hayden, C. B.**: R.S.C., iii.
- Hayden, Ferdinand Vandever**; Philadelphia, Penn.: U. S. Geol.: R.S.C., iii, vii.
- Hayden, Horace H.**: R.S.C., iii. [Geological Essays, Baltimore, 1820.]
- Hayes, George Edward**; Buffalo, N. Y.: R.S.C., iii.
- Hayes, John Lord**; Cambridge, Mass.: R.S.C., iii.
- *Hays, Isaac**; d. 1879: R.S.C., iii. — Biog.: Proc. Am. Acad., xv, 380. (Pal.)
- Haymond, Rufus**; Warsaw, Indiana: former Asst. Geol. Surv. Indiana: R.S.C., iii. (Ornithol., Pal.)
- Herzer, Herman**; Berea, O.: Asst. (Second) Geol. Surveys Kentucky and Ohio.
- Heilprin, Angelo**; Philadelphia, Penn. [Proc. Phil. Acad. Nat. Sci., 1879, 211, 1880, 20, 1881, 151, 416, 444, 448.]
- Hicks, Lewis Ezra**; Granville, Ohio: Prof. Denison Univ.
- *Hildreth, Samuel Prescott**; d. 1863: Asst. (First) Ohio Geol. Surv. — Biog.: A.J.S. (2) xxxvi, 312.
- Hilgard, Eugene Waldemar** (b. Bavaria); Berkeley, Cal.: former St. Geol. Miss.; now Prof. St. Univ. Cal.: R.S.C., iii.
- Hill, Franklin Chapman**; Princeton, N. J.: former Asst. (Second) Ohio Geol. Surv.; now Curator E. M. Museum of Geol. and Pal., Princeton Coll., N. J.
- *Hitchcock, Edward**; d. 1864: St. Geol. Mass. and Vermont; Prof. and Prest. Amherst Coll.: A.C., P., D., R.S.C., iii. — Biog.: A.J.S. (2) xxxvii, 302; Proc. Am. Acad., vi, 291; Ann. Nat. Acad. Sci. for 1860-66 (by J. P. Lesley). Qu. Jour. Geol. Soc. London, xxi, 1 (50).
- Hitchcock, Edward**; Amherst, Mass.: former Asst. Geol. Surv. Vt.; Prof. Amherst Coll.

- Hitchcock**, Charles Henry; Hanover, N. H.: former St. Geol. New Hampshire; now Prof. Dartmouth Coll., N. H.: R.S.C., iii, vii.
- Hobbs**, Barnabas C.: Bloomingdale, Ind.: Asst. Geol. Surv. Indiana.
- *Hodge**, James Thacher; d. 1871: Asst. Geol. Surveys, Me., N. H., Ohio and Penn.: R.S.C., iii.
- Holmes**, Francis Simmons; Charleston, S. C.: R.S.C., iii. (Zool., Pal., Geol.)
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- Horn**, George H.; Philadelphia, Penn.: R.S.C., iii, vii. (Entom., Pal.)
- *Houghton**, Douglass; d. 1845: St. Geol. Michigan: D., R.S.C., iii. — Biog.: A.J.S. (2) i, 150; v, 217.
- Howell**, Edwin Eugene; Rochester, N. Y.: former Asst. U. S. Geol. Surv. W. of 100th Mer.
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- Hubbard**, Oliver Payson; Hanover, N. H.: Prof. Dartmouth Coll., N. H.: R.S.C., iii.
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- Hyatt**, Alpheus; Boston, Mass.: Curator Bost. Soc. Nat. Hist.: R.S.C., vii. (Zool., Pal.)
- Irving**, Roland Duer; Madison, Wis.: Asst. Geol. Surv. Wisconsin; Prof. Wis. St. Univ.
- *Jackson**, Charles Thomas; d. 1880: St. Geol. Maine, New Hampshire, and Rhode Island: A.C., P., D., R.S.C., iii. — Biog.: A.J.S. (3) xx, 351; Proc. Bost. Soc. Nat. Hist., xxi, 40.
- *Jackson**, Robert M. S.; d. 1865: Asst. (First) Geol. Surv. Penn.
- *James**, Edwin; d. 1862: Bot. and Geol. to Long's Ex.: D., R.S.C., iii. — Biog.: A.J.S. (2) xxxiii, 428. (Bot., Geol.)
- James**, Uriah Pierson; Cincinnati, O.: [Jour. Cin. Soc. Nat. Hist., i, 19, 151, 153, 239, 333. Editor of the Palæontologist.]
- Jenney**, Walter Proctor; Deadwood, Dakota: former Geol. to U. S. Black Hills Ex.
- Jessup**, A. E.: R.S.C., iii.
- *Johnson**, Walter Rogers; d. 1852: Prof. Franklin Inst.; Prof. Univ. Penn.: A.C., D., R.S.C., iii. (Phys., Metal., Chem., Geol.)
- Julien**, Alexis Anastay; New York, N. Y.: Asst. School of Min. Columbia Coll.
- *Kain**, John Henry; d. 1849: Prof. Jeff. Med. Coll. Phil.: R.S.C., iii. (Meteorol., Geol.)
- *Keating**, William Henry; d. 1840: Prof. Univ. Penn.; Geologist to Long's Exped. 1823: R.S.C., iii.
- Kerr**, Washington Carothers; Raleigh, N. C.: St. Geol. N. Carolina: R.S.C., viii.
- Kimball**, James Putnam; Bethlehem, Penn.: former Asst. Wis. Geol. Surv.; now Prof. Lehigh Univ. (Min.-Eng., Metall., Geol.)
- King**, Clarence; Newport, R. I.: former Asst. Cal. Geol. Surv.; Geol. in charge Fortieth Par. Surv.; U. S. Geologist: R.S.C., viii.
- King**, Henry: R.S.C., iii. [Report of Geol. Reconnaissance of part of the Missouri River, 1839.]
- *Kitchell**, William; d. 1861: St. Geol. New Jersey.
- *Klippart**, John H.; d. 1878: Asst. (Second) Geol. Surv. Ohio: R.S.C., iii. (Bot., Meteorol., Geol.)
- Kneeland**, Samuel; Boston, Mass.: R.S.C., iii, viii. (Zool., Geog., Geol.)
- Lakes**, Arthur; Golden, Colo.: Prof. School of Mines.
- *Lapham**, Increase Allen; d. 1875: St. Geol. Wisconsin: A.C., R.S.C., iii, viii. — Biog.: A.J.S. (3) x, 320; xi, 326, 333; Trans. Wis. Acad. Sci., iii, 204. (Bot., Meteorol., Geol.)
- Lea**, Henry Carey: R.S.C., iii.
- Lea**, Isaac; Philadelphia, Penn.: A.C., R.S.C., iii, viii. (Conchol., Pal., Min., Geol.)
- LeConte**, John Lawrence; Philadelphia, Penn.: R.S.C., iii, viii. (Entom., Pal., Geol.)
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- Leeds**, Stephen P.: R.S.C., viii.
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- Levette**, Gilbert M.; Indianapolis, Ind.: former Asst. Geol. Surv. Indiana.
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- Lyman**, Benjamin Smith; Northampton, Mass.: Geol. to Japanese Govt.: R.S.C., viii.
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- Lyon**, Victor Wathen; Jeffersonville, Clark Cy., Ind.: [Proc. Acad. Nat. Sci., Phil. 1879, 43.]
- McChesney**, J. H.; Chicago, Ill.: Prof. Univ. Chicago; R.S.C., viii.
- McDonald**, Marshall; Lexington, Va.: R.S.C., viii.
- Macfarlane**, James; Corning, N. Y. [The Coal Regions of America: their Topography, Geology, and Development, New York, 1873.]
- McGee**, W. J.: Farley, Iowa. [A.J.S. (3) xv, 339, xvi, 272, 458, xviii, 301.]
- McIntire**, E. S.; Mitchell, Ind.: former Asst. Geol. Surv. Indiana.
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- ***Manross**, Newton Spaulding; d. 1862: Prof. Amherst Coll.: R.S.C., iv. — Biog.: A.J.S. (2) xxxiv, 452.
- Marcy**, Oliver; Evanston, Ill.: R.S.C., viii.
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- Marsh**, George Perkins; Rome, Italy. (Philol., Phys.-Geog.)
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- ***Meek**, Fielding Bradford; d. 1876: Asst. Mo. and Ill. Geol. Surveys: R.S.C., iv, viii. — Biog.: A.J.S. (3) xiii, 88, 169; Proc. Am. Acad., xii, 286. (Pal.)
- Mickleborough**, John; Cincinnati, O.: [Jour. Cinn. Soc. Nat. Hist., i, 61.]
- Miller**, Samuel Almond; Cincinnati, Ohio. [Editor Cinn. Qu. Jour. Sci.; numerous articles in Jour. Cinn. Soc. Nat. Hist.]
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- Morse**, James O.: [Trans. Albany Inst., i (1830), 84].
- ***Morton**, Samuel George; d. 1851: A.C., P., D., R.S.C., iv. — Biog.: A.J.S. xii, 144; xiii, 153.
- ***Mudge**, Benjamin Franklin; d. 1879: St. Geol. Kansas; Prof. St. Agri. Coll., Kansas: R.S.C., iv, viii. — Biog.: A.J.S. (3) xix, 82.
- Murlish**, John (b. Eng.); Mazomanie, Wis.: former St. Geol. Wisconsin.
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- ***Nicollet**, Joseph Nicolas (b. Switz.); d. 1843: A.C., P., D., R.S.C., iv. — Biog.: A.J.S. (1) xlv, 404; xlvii, 139. (Astron., Geog., Geol.)
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- Perkins, George Henry**; Burlington, Vt.: Prof. Univ. Vt.: R.S.C., viii.
- *Perkins, Henry Coit**; d. 1873: R.S.C., viii.
- *Perry, John Bulkley**; d. 1872: Asst. Mus. Comp. Zool.: R.S.C., viii. — Biog.: A.J.S. (3) iv, 424; Proc. Am. Acad., ix, 321.
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- *Rémond, Auguste**; d. 1867: Asst. Geol. Surv. California.
- *Renwick, James**; d. 1863: Prof. Col. Coll., N. Y. City; D., R.S.C., v. [Outlines of Geology, 1838.] (Biog., Hist., Phys., Chem., Geol.)
- *Riddell, John Leonard**; d. 1865; Prof. Med. Coll. La.: R.S.C., v. — Biog.: A.J.S. (2) xli, 141. (Bot., Med., Micros., Geol.)
- *Rogers, Henry Darwin**; d. 1866: Prof. Univ. Penn.; St. Geol. N. J. and Penn.; Prof. Univ. Glasgow: A.C., D., R.S.C., v, viii. — Biog.: A.J.S. (2) xlii, 136; Qu. Jour. Geol. Soc. London, xxiii, xxxvii.
- Rogers, William Burton**; Boston, Mass.: former Prof. Univ. Va.; St. Geol. Va.; Prest. Mass. Tech. Inst. Boston: A.C., R.S.C., v, viii. (Phys., Geol.)
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- Russell, Israel Cook**; Plainfield, N. J.: Asst. U. S. Geol. Surv. [Ann. N. Y. Acad. Sci., i, 220, ii, 27; A.J.S. (3) xv, 277, xvi, 112, xvii, 328, xviii, 232.]
- Safford, James Merrill**; Nashville, Tenn.: St. Geol. Tenn.; Prof. Vanderbilt Univ.: R.S.C., v, viii.
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- *Say, Thomas**; d. 1834: Zool. to Long's Ex.: R.S.C., v. (Zool., Pal.)
- Schiel, James**; (b. Germany): former Geol. to U. S. Pacific Railroad Surv.: R.S.C., v. (Chem., Geol.)
- *Schoolcraft, Henry Rowe**; d. 1864: A. C., P., D., R.S.C., v. — Biog.: A.J.S. (2) xxxix, 114. (Eth., Geol.)
- Soudder, Samuel Hubbard**; Cambridge, Mass.: Prest. Bost. Soc. Nat. Hist.; Asst. Libn. Harv. Coll.: R.S.C., v, viii. (Entom., Pal., Geol.)
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- *Shumard**, George G.; d. ? : Geol. U. S. Red Riv. Exped.
- *Silliman**, Benjamin; d. 1864: Prof. Yale Coll.: A.C., P., D., R.S.C., v. — Biog.: A.J.S. (2) xxxix, 1: Qu. Jour. Geol. Soc. London, xxi, li (51) Can. Naturalist, i (1864) 461. (Chem., Mineral, Geol.)
- Silliman**, Benjamin; New Haven, Conn.: Prof. Yale Coll.: P., D., A.C., R.S.C., v, viii. (Chem., Mineral, Min.-Eng., Geol.)
- Smith**, Alfred: R.S.C., v.
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- *Stimpson**, William; d. 1872: R.S.C., v, viii. — Biog.: Proc. Cal. Acad. Sci., iv, 230: A.J.S. (3) iii, 484, iv, 159. (Zoöl., Pal.)
- Stone**, George Hapgood; Colorado Springs, Colo.: Prof. Colorado College.
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- Sutton**, George; Aurora, Indiana: R.S.C., viii.
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- *Taylor**, Richard Cowling, (b. Eng.); d. 1851: P., D., R.S.C., v. — Biog.: A.J.S. (2) xiii, 144: Qu. Jour. Geol. Soc. London, viii, xxiii. (Min.-Eng., Geol.)
- *Tenney**, Sanborn; d. 1877: Prof. Williams Coll. Williamstown, Mass.: R.S.C., viii. — Biog.: A.J.S. (3) xiv, 168. (Zoöl., Pal., Bot., Geol.)
- *Thompson**, Zadock; d. 1856: St. Naturalist, Vermont: R.S.C., v. — Biog.: in A. Young's "Prelim. Report on Nat. Hist. of Vermont," Burlington, Vt. 1856; A.J.S. (2) xxi, 301, xxii, 44. (Hist., Statistics, Geog., Geol.)
- Todd**, James Edward; Tabor, Iowa: Prof. Tabor Coll. [A.J.S. (3) xvii, 120, xviii, 148. Proc. Am. Ass. Advct. Sci., Nashville meeting, 1877, 287; St. Louis meeting, 1878, 231.]
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- *Tyson**, Philip T.; d. 1877: St. Agr. Chemist Maryland: R.S.C., vi, viii.
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- Van Rensselaer**, Jeremiah: R.S.C., v. [Lectures on Geology; being Outlines of the Science, New York, 1825.]
- *Vanuxem**, Lardner; d. 1848: St. Geol. N. Y.: P., R.S.C., vi. — Biog.: A.J.S. (2) x, 298.
- Verrill**, Addison Emory; New Haven, Conn.: Prof. Sheffield Sci. School: R.S.C., vi, viii. (Zoöl., Geol.)
- Vogdes**, Anthony Wayne; Fortress Monroe, Va.: Lieut. U. S. Artillery. [A monograph of American Trilobites, Tampa, Florida, Pt. 1, 1876; Proc. Phil. Acad. Nat. Sci., 1877, 138.]
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- Warren, Gouverneur Kemble**; U. S. Engineers: D., R.S.C., vi. [An Essay concerning important Physical Features exhibited in the Valley of the Mississippi River, and upon their Signification, Washington, 1874.]
- *Warren, John Collins**; d. 1856: Prof. Harv. Med. School; A.C., R.S.C., vi. — Biog.: A.J.S. (2) xxii, 151. (Med., Zool., Pal.)
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MAPS IN PETERMANN'S GEOGRAPHISCHE
MITTHEILUNGEN. 1855-1881.

By RICHARD BLISS.

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10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillips.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.
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CLASSIFIED INDEX TO THE MAPS IN PETERMANN'S GEOGRAPHISCHE MITTHEILUNGEN.

1855-1881.

By RICHARD BLISS,

Of the Northern Transcontinental Survey.

THE following index includes all the maps and plans contained in Petermann's *Geographische Mittheilungen* and the accompanying *Ergänzungsblätter*, from the beginning of the work in 1855 to the end of the year 1881. It does not, however, include profiles, sections, and graphic representations.

The titles, in every case, have been taken from the maps themselves, but in a few instances, where errors of orthography, punctuation, or capitalization tended to render the meaning obscure, recourse has been had to the amended title contained in the table of contents of the individual volumes. Where no title or only an incomplete one is given on the map or in the table of contents, a full or a supplementary title, enclosed in brackets, has been made to supply the deficiency. Similarly, when no scale is given a scale has been calculated, on the basis of the English statute mile, from measurements taken mainly from Stieler's *Hand-Atlas*, and is likewise distinguished by enclosure in brackets. In a few instances, where the whole or a large portion of the earth's surface is represented on a very small map, the scale is indicated solely by the intervals between the parallels of latitude.

The measurements for the size of the maps include the outer border lines; the first one given being the one parallel to the title. Where a small map occupies a portion of a larger one the extreme dimensions of the latter are the ones given. When a map is not sufficiently uniform to admit of a satisfactory measurement, the fact is indicated by the word "irregular."

In the arrangement of the headings in the index, the general *Inhalts-Verzeichniss* has furnished the basis for the classification; such modifications having been made as seemed desirable to secure a more natural arrangement and to afford greater facility in the consultation of the index. The first sub-head under each country, marked "i. General," includes not merely maps of the whole country, but also those embracing several sub-divisions, together with maps of travels through considerable portions of the region indicated.

Provinces and islands when remote from the political divisions to which they belong are classed under the name of the country or State in or near which they are situated. Thus, Java is entered under Indian Archipelago and not under Netherlands, and Cape Colony under South Africa and not under Great Britain. For the sake of conciseness, as well as for greater convenience in the use of the index, it has been found expedient occasionally to unite several States under one head, as in the case of Denmark and Scandinavia, and even to use certain chorographic names in an arbitrary manner. Turkey, for instance, here includes the whole of the Balkan peninsula, exclusive of Dalmatia and Greece, but does not include Turkey in Asia, which is classed under Asia Minor. Central Asia is limited mainly to the Trans-Caspian region and Turkestan. Equatorial Africa is made to comprehend that portion of Africa lying, approximately, between 10° N. Lat. and 10° S. Lat., and consequently contains a repetition of most of the titles of the Upper Nile Region.

The index titles from the regular series of the *Mittheilungen* include the number of the volume, date, and plate or page. Those from the *Ergänzungsblätter* the number of the volume, the number and date of the Heft, and the number of the plate whenever this is numbered.

Synopsis of the classification :

I. THE WORLD.

1. Index Maps.
2. Cartographic Projections.
3. The Earth in General.

II. EUROPE.

1. General.
2. Germany.
3. Austria-Hungary.
4. Switzerland.
5. Denmark and Scandinavia.
6. Belgium and the Netherlands.
7. Great Britain.
8. France.
9. Spain and Portugal.
10. Italy.
11. European Turkey.
12. Greece.
13. European Russia.
14. Caucasus.

III. ASIA.

1. General.
2. Central Asia.
3. Asia Minor.
4. Palestine and the Sinai Peninsula.
5. Persia.
6. Arabia.
7. Afghanistan and Baluchistan
8. Asiatic Russia.
9. India and the Himalaya Region.
10. Farther India and the Malay Peninsula.
11. Chinese Empire.
12. Japan.
13. Indian Archipelago.

IV. AFRICA.

1. General.
2. Nile and Red Sea Districts, Abyssinia.
3. Tripolis, Fezzan, Algiers, Morocco.
4. Sahara and Sudan.
5. Senegambia and Upper Guinea.
6. Equatorial Africa.
7. Southern Africa.
8. Islands.

V. AUSTRALASIA.

- a. Australia.
 1. General.
 2. West Australia.
 3. North Australia.
 4. Alexandra Land.
 5. South Australia.
 6. Queensland.
 7. New South Wales.
 8. Victoria.
- b. Islands.
 9. Tasmania.
 10. New Guinea.
 11. New Zealand and Chatham Island.

VI. POLYNESIA.

1. General.
2. Single Islands and Groups.

VII. NORTH AMERICA.

1. General.
2. Alaska. (Titles repeated under U. S.)
3. British America.
4. United States.
5. Mexico.
6. Central America.
7. West Indies.

VIII. SOUTH AMERICA.

1. General.
2. Columbia, Venezuela, Ecuador.
3. Brazil.
4. Peru, Bolivia.
5. Chili.
6. La Plata.
7. Paraguay and Uruguay.
8. Patagonia.

IX. POLAR REGIONS.

1. North Polar Region.
2. Greenland.
3. Iceland.
4. Spitzbergen.
5. Nowaja, Semlja and the Kara Sea.
6. South Polar Region.

X. OCEANS AND SINGLE ISLANDS.

1. Atlantic Ocean.
2. Mediterranean Sea.
3. Indian Ocean.
4. Pacific Ocean.

XI. MISCELLANEOUS.

1. Astronomical.
2. Trigonometrical.
3. Meteorological.
4. Seismological (Earthquakes and Volcanoes).
5. Geological.
6. Botanical.
7. Zoological.

I. THE WORLD.

1. Index Maps.

1. Übersicht der in Petermann's Geograph. Mittheilungen 1855 bis 1864 enthaltenen Karten.

- a. Karten von Europa. Scale, 1: 41,000,000. Size, 14 × 10.2 cm.
- b. Karten von Asien. Scale, 1: 58,000,000. Size, 17.1 × 16.7 cm.
- c. Karten von Afrika. Scale, 1: 58,000,000. Size, 14 × 14.5 cm.
- d. Karten von Australien. Scale, 1: 41,000,000. Size, 12.4 × 8 cm.
- e. Karten von Nord-Amerika. Scale, 1: 51,000,000. Size, 10.6 × 16.7 cm.
- f. Karten von Süd-Amerika. Scale, 1: 51,000,000. Size, 10.7 × 16.7 cm.
- g. Erdkarten, Océane & Inseln. Scale, [ca. 1: 300,000,000]. Size, 16.4 × 7.9 cm.

Inhalts-Verzeichniss 1855-1864.

2. Übersicht der in Petermann's Geograph. Mittheilungen 1865 bis 1874 enthaltenen Karten.

- a. Karten von Europa. Scale, 1: 41,000,000. Size, 14 × 10.4 cm.
- b. Süd-Deutschland, Schweiz, &c. Scale, 1: 14,000,000. Size, 3.7 × 3.5 cm.
- c. Karten von Asien. Scale, 1: 58,000,000. Size, 17.1 × 16.9 cm.
- d. Karten von Afrika. Scale, 1: 58,000,000. Size, 14 × 14.5 cm.
- e. Abessinien. Scale, 1: 14,000,000. Size, 3.7 × 5.4 cm.
- f. Karten von Australien. Scale, 1: 41,000,000. Size, 12.4 × 8 cm.
- g. Karten von Nord-Amerika. Scale, 1: 51,000,000. Size, 10.6 × 16.9 cm.
- h. Karten von Süd-Amerika. Scale, 1: 51,000,000. Size, 10.7 × 16.9 cm.
- i. Erdkarten Océane & Inseln. Scale, [ca. 1: 300,000,000]. Size, 16.5 × 8 cm.

Inhalts-Verzeichniss 1865-1874. Pl. 1.

3. Übersicht der in Petermann's Geograph. Mittheilungen 1865 bis 1874 enthaltenen Nord- & Süd-Polarkarten. Zusammengestellt von A. Petermann. Scale, 1: 14,000,000. Size, 42.7 × 24.3 cm.

Inhalts-Verzeichniss 1865-1874. Pl. 2.

2. Cartographic Projections.

4. H. James' Geometrische Horizontal-Projection von zwei Drittheilen der Erdkugel. Size (diam.), 11.7 cm. [IV.] 1858. Pl. 4.

5. J. Babinet's Homalographische Projection der östlichen Erdhälfte. Size (diam.), 11.7 cm. [IV.] 1858. Pl. 4.

6. J. Babinet's Homalographische Projection der ganzen Erdoberfläche. Size (diam.), 7.9 × 4 cm. [IV.] 1858. Pl. 4.

7. Stereographische Aequatorial-Projektion; Orthographische Aequatorial-Projektion; Aequatorial-Projektion nach Flamsteed und nach Lambert. Size, each, 4 × 3.9 cm. [IV.] 1858. Pl. 4.

8. Weltkarte in Nordpolar-Sternprojektion. Nach einer Idee von Dr. G. Jäger, in Wien. Mit Modifikationen von A. Petermann. Scale, 1: 185,000,000. Size (diam.), 21.7 cm.

Ergbd. IV. No. 16. 1865. Pl. 3.

3. The Earth in General.

9. Skizze zur Übersicht der Vulkan-Ausbrüche und Erdbeben in den Jahren 1855 und 1856. Equatorial scale, 1: 230,000,000. Size, 17.9 × 9.8 cm. [IV.] 1858. P. 236.

10. H. James' Geometrische Horizontal-Projektion von zwei Drittheilen der Erdkugel. Size (diam.), 11.7 cm. [IV.] 1858. Pl. 4.

11. J. Babinet's Homalographische Projection der östlichen Erdhälfte. Size (diam.), 11.7 cm. [IV.] 1858. Pl. 4.

12. J. Babinet's Homalographische Projection der ganzen Erdoberfläche. Size (diam.), 7.9 × 4 cm. [IV.] 1858. Pl. 4.

13. Karte zur Darstellung des Schiffs-Kurses der Novara um die Erde, von A. Petermann. Scale, 1: 230,000,000. Size, 17.2 × 11.1 cm. [V.] 1859. P. 403.

14. Skizze zur Übersicht der Dichtigkeit der Bevölkerung in den verschiedenen Theilen der Erde, gezeichnet von A. Petermann. Equatorial scale, 1: 230,000,000. Size, 17.7 × 11.4 cm. [V.] 1859. P. 1.

15. Regenkarte der Erde, nach A. Mühlry's Untersuchungen und Skizzen gezeichnet von A. Petermann. Equatorial scale, 1: 230,000,000. Size, 17.6 × 11.6 cm. [VI.] 1860. P. 1.

16. Sturmkarten des Atlantischen Océans [in vier Ansichten]. Von K. F. R. Andrau. Scale, 1: 140,000,000. Size, 19.1 × 24.5 cm. [VIII.] 1862. Pl. 15.

17. Die Vegetations-Gebiete der Erde. Von Prof. Dr. A. Grisebach (Geogr. Grundlage: Berghaus' Erdkarte in Stieler's Hand-Atlas). Cartons von A. Petermann. Equatorial scale, 1: 111,000,000. Size, 38 × 24.9 cm.

a. Auckland Id. Scale, 1: 2,000,000. Size, 3.3 × 3.2 cm.

b. Juan Fernandez. Scale, 1: 1,000,000. Size, 3.2 × 2.6 cm.

c. Warekauri Id. Scale, 1: 2,000,000. Size, 4.6 × 5.2 cm.

[XII.] 1866. Pl. 3.

18. Papageien-Karte. Kartographische Darstellungen der Verbreitung der Papageien. Nach den Arbeiten von Otto Finsch entw. von A. Petermann. Equatorial scale, 1: 111,000,000. Size, 43.4 × 24.7 cm. [XIII.] 1867. Pl. 1.

19. Graphische Darstellung von Dr. Kane's Temperatur- und Wind-Beobachtungen in Rensselaer Bai, 1853-55. Size, 19 × 24.6 cm. [XIII.] 1867. Pl. 7.

20. Übersicht des Telegraphen und der Dampfschiffahrt um die Erde von Herm. Berghaus. Scale, 1: 100,000,000. Size, 37.8 × 24.7 cm. Ergbd. IV. No. 19. 1867.

21. Karte zur Übersicht von A. v. Humboldt's Reisen in der Alten & Neuen Welt 1799-1829. Zusammengestellt von A. Petermann. Equatorial scale, 1: 40,000,000. Size, 49.2 × 25.3 cm. XV. 1869. Pl. 16.

22. Geographische Verbreitung der Schmetterlinge über die Erde. Von Gabriel Koch. Red. von A. Petermann. Equatorial scale, 1: 135,000,000. Size, 30.5 × 24.7 cm. XVI. 1870. Pl. 2.

23. Geographische Verbreitung der Hirsche über die Erde. Genealogie der Verbreitung. Von Dr. G. Jaeger & Dr. E. Bessels. Scale, 1: 100,000,000. Size, 21.6 × 24.5 cm. XVI. 1870. Pl. 6.

24. Geographische Verbreitung der Hirsche über die Erde. Gegenwärtige Verbreitungsbezirke. Von Dr. G. Jaeger & Dr. E. Bessels. Scale, 1: 100,000,000. Size, 21.6 × 24.5 cm. XVI. 1870. Pl. 6.

25. Die geographische Verbreitung der Seegräser. [Hydrocharitaceae, Potameae.] Von Dr. P. Ascherson. Equatorial scale, 1: 220,000,000. Size: Hydrocharitaceae, 18.8 × 4.8 cm.; Potameae, 18.8 × 7.5 cm. Potameae (Schluss), 18.8 × 11.7 cm. XVII. 1871. Pl. 13.

26. Die geographische Verbreitung der Wanderheuschrecke. Von Fr. Th. Köppen. Equatorial scale, 1: 135,000,000. Size, 19.5 × 24.4 cm. XVII. 1871. Pl. 18.

27. Die geographische Verbreitung der Coniferen und Gnetaceen über die Erde. Von Dr. Robert Brown. Equatorial scale, 1: 135,000,000. Size, 30.6 × 24.8 cm. XVIII. 1872. Pl. 3.

28. Die Vertheilung der Menschen über die Erde. Von E. Behm und F. Hanemann. Scale, 1: 80,000,000. Size (diam.), 26.1 × 26.5 cm.

Ergbd. VIII. No. 35. 1874. Pl. 1.

29. Isobaren und Winde im Januar (Erdkarte). Von Dr. A. Wojeikow. Equatorial scale, 1: 135,000,000. Size, 30.5 × 24.9 cm.

Ergbd. VIII. No. 38. 1874. Pl. 1.

30. Isobaren und Winde im Juli (Erdkarte). Von Dr. A. Wojeikow. Equatorial scale, 1: 135,000,000. Size, 30.5 × 24.9 cm.

Ergbd. VIII. No. 38. 1874. Pl. 2.

31. Regenkarte der Erde. Von Dr. A. Wojeikow. Equatorial scale, 1: 135,000,000. Size, 30.5 × 24.9 cm. Ergbd. VIII. No. 38. 1874. Pl. 3.

32. Welt-Karte zur Übersicht der Luft-Strömungen, Bodenbeschaffenheit, &c. Entworfen & gez. von Herm. Berghaus 1867. Nachtr. 1872. Scale, [1: 53,000,000.] Size, 37.8 × 24.6 cm.

Ergbd. XI. No. 48. 1876.

33. Die geographische Verbreitung der Palmen auf der Erde. Von Dr. O. Drude. Equatorial scale, 1: 135,000,000. Verbreitung im Allgemeinen & Dichtigkeit. Verbreitung der Tribus. Size, each, 30.9 × 12.2 cm. XXIV. 1878. Pl. 2.

34. Übersichtskarte über die geographische Verbreitung der Deltas von Georg Rudolf Credner. Equatorial scale, 1: 135,000,000. Size, 30.7 × 24.4 cm. Ergbd. XII. No. 56. 1878. Pl. 2.

35. Kartographische Darstellung der Niveau-Veränderungen oceanischer Küstenstriche und des Wasserspiegels von Binnensee'n von Georg Rudolf Credner. Equatorial scale, 1: 135,000,000. Size, 30.6 × 24.2 cm.

Ergbd. XII. No. 56. 1878. Pl. 3.

36. Die Temperatur-Zonen der Erde. Von Alex. Supan. Equatorial scale, 1: 135,000,000. Size, 30.9 × 24.7 cm. XXV. 1879. Pl. 18.

37. Übersicht der Länder in welchen bisher wirkliche Volkszählungen Statt fanden. Von H. Wagner. Equatorial scale [1: 131,000,000]. Size, 30.8 × 24.7 cm. Ergbd. XIV. No. 62. 1880.

38. Regenzonen im Verbreitungsgebiet der Dattelpalme bei niedrigstem und höchstem Sonnenstande, nebst Angabe der Verbreitungsgebiete von *Chamaerops humilis* und *Hyphaene argentea*, sowie der Polargrenzen von *Hyphaene thebaica* und *Cocos nucifera*. Equatorial scale [ca. 1: 58,000,000]. Size, 18 × 8.1 cm.

Ergbd. XIV. No. 64. 1881. P. 47.

39. Kartenskizze der geographischen Verbreitung der Dattelpalme von Theobald Fischer. Mean scale, 1: 17,000,000. Size, 53.2 × 24 cm.

Ergbd. XIV. No. 64. 1881.

II. EUROPE.

1. General.

40. Karte der wichtigsten habituellen Stossgebiete in Central-Europa. Nach Dr. Volger's Untersuchungen gez. von A. Petermann. Scale, 1: 2,700,000. Size, 24.3 × 18.9 cm. [II.] 1856. Pl. 6.

41. Karte zur Übersicht der geographischen Ausdehnung des Erdbebens von Vesp am 25 Juli 1855. Nach Dr. Volger's Angaben gezeichnet von A. Petermann. Scale, 1: 2,800,000. Size, 19 × 24.4 cm.

[II.] 1856. Pl. 7.

42. Karte von Central-Europa zur Übersicht des Standpunktes der grössern Landes-Aufnahmen am Anfang des J. 1857. Gez. von A. Petermann. Scale, 1: 9,500,000. Size, 24.4 × 19.1 cm.

[III.] 1857. Pl. 4.

43. Graphische Skizzen zur Darstellung der ringförmigen Bahn der Erdbeben. Nach Dr. K. J. Clement's Angabe und Hypothese gez. von A. Petermann.

a. Erdbeben 1. April 1853. Scale, [ca. 1: 4,600,000]. Size,

5.6 × 9.5 cm.

b. Erdbeben 6. Dec. 1855. Scale, [ca. 1: 7,900,000]. Size,

5.6 × 3.5 cm.

c. Erdbeben 1. Nov. 1755. Scale, [ca. 1: 11,400,000]. Size,

5.6 × 5.2 cm.

d. Erdbeben 12. Oktober 1856. Scale, [ca. 1: 6,800,000].

Size, 19 × 6.4 cm.

[III.] 1857. Pl. 8.

44. Skizze des geogr. Verbreitung des Moorrauches im Mai 1857. Nach Dr. Prestel's Angaben. Scale, 1: 10,500,000. Size, 8.8 × 7.5 cm.

[IV.] 1858. P. 106.

45. Übersicht von A. Stieler's Karte von Deutschland, den Niederlanden, Belgien, Schweiz und den angrenzenden Ländern in 25 Blättern. Scale, 1: 740,000. Size, 18.1 × 15.8 cm.

[XIII.] 1867. P. 216.

46. Karte von Central-Europa bis Paris, Mailand, Triest, Pesth, Krakau, Königsberg, Schleswig, zur Übersicht der politischen Gestaltung im J. 1867, und der Eisenbahnen und andern Communicationen. Gotha: Justus Perthes 1867. Scale, 1: 1,800,000. Size, 71 × 65 cm. Ergbd. IV. No. 19. 1867.

47. Europäische Länder zum Vergleich der Grösse von Neu Guinea [und den benachbarten Inseln]. Scale, 1: 20,000,000. Size, 12.8 × 7.7 cm.

XV. 1869. Pl. 20.

48. Die Mittel- und Ost-Alpen in ihrer orographischen Gruppierung. Nach Carl v. Sonklar K. K. Oberst. Bearbeitung der Karte von Herm. Berghaus & C. Vogel. Scale, 1: 1,850,000. Size, 43 × 24.9 cm. XVI. 1870. Pl. 17.

49. Index-Karte zu Mayr und Berghaus' Karte der Alpen in 8 Bl. Scale, [ca. 1: 5,000,000]. Size, 14.1 × 6.2 cm. XVIII. 1872. P. 139.

50. Mayr's Alpenkarte I., No. 4. Scale, 1: 450,000. Size, 36.2 × 33.2 cm. XVIII. 1872. Pl. 7.

51. Dichtigkeit der Bevölkerung in Europa. Scale, 1: 11,000,000. Size, 49.1 × 36.1 cm.

Ergbd. VIII. No. 35. 1874. Pl. 2.

52. Europa. Die Verbreitung der sedimentären Formationen in Europa. Nach André Dumont's Carte Géologique de l'Europe von H. Habenicht. Mit Benutzung neuerer Materialien. Von A. Petermann. Scale, 1: 15,000,000. Size, 40.8 × 33.7 cm. XXII. 1876. Pl. 5.

53. Europa während der beiden Eiszeiten. Nach den besten vorhandenen Quellen bearbeitet von H. Habenicht. Scale, 1: 15,000,000. Size, 41.1 × 34 cm.

a. Die Gletscher der Lombardei während der Eiszeiten.

Scale, [ca. 1: 3,700,000]. Size, 10.1 × 5.2 cm.

b. Die Gletscher der Schweiz während der Eiszeiten. Scale,

[ca. 1: 3,700,000]. Size, 10.2 × 7.3 cm.

XXIV. 1878. Pl. 6.

54. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1: 3,700,000. Size, 41 × 33.7 cm. XXIV. 1878. Pl. 10.

55. Übersichtskarte von dem Verbreitungsgebiet des schwarzen Todes in den Jahren 1346 bis 1351 und den äussersten Grenzen der Pest-Epidemien zwischen 1351 und 1696. Von Dr. Carl Martin. Mean scale, 1: 33,000,000. Size, 32.4 × 15.5 cm.

XXV. 1879. Pl. 14.

56. Die äussersten Grenzen der Pest-Epidemien des achzehnten Jahrhunderts. — Entworfen von Dr. Carl Martin. Mean scale, [1: 33,000,000]. Size, 1701 bis 1721, 8.5×11.3 cm.; 1726 bis 1744, 10.6×11.3 cm.; 1747 bis 1805, 13.3×11.3 cm.

XXV. 1879. Pl. 14.

57. Die Pest-Epidemien des neunzehnten Jahrhunderts. Mean scale, [1: 33,000,000]. Size, 1810 bis 1832, 13.5×7.4 cm.; 1833 bis 1874, 13.5×7 cm.

XXV. 1879. Pl. 14.

58. Die Seefischerei-Gebiete Europa's nebst Angabe der wichtigsten Fischerhäfen. Scale, 1: 12,000,000. Size, 24.4×32.1 cm.

a. Die Fischereigründe bei Lofoten und Westeraalen. Von J. N. Mohn. Scale, 1: 6,000,000. Size, 3.4×4.4 cm.

b. Dänemark. Scale, 1: 6,000,000. Size, 4.3×5 cm.

c. Austernbänke des schleswigschen Wattenmeer's. Scale, 1: 1,800,000. Size, 3.4×5 cm.

d. Das wichtigste Fischereigebiet im südwestlichen Schottland. Scale, [1: 6,000,000]. Size, 4.3×2.5 cm.

e. Die wichtigsten Fischereigründe und Häfen der Nordsee. Scale, 1: 6,000,000. Size, 9.2×7.8 cm.

f. Tunnfischerei an der Südküste von Portugal. Scale, 1: 1,500,000. Size, 7.2×2.3 cm.

Ergbd. XIII. No. 60. 1880.

59. Phänologische Karte von Mittel-Europa, bezogen auf die April-Blüthen von Giessen. Von Prof. Dr. H. Hoffmann. Scale, 1: 3,700,000. Size, 38.2×31.1 cm.

XXVII. 1881. Pl. 2.

2. Germany.

60. Illustrationen zur Physikalischen Geographie des Herzogthums Coburg. Von Major A. W. Fils.

a. No. 1. No. 2. [Kartenskizzen des Herzogthums Coburg]. Scale, 1: 300,000. Size, each, 7.6×6.6 cm.

b. Terrain-Skizze vom Herzogthum Coburg. Scale, 1: 300,000. Size, 15.2×13.2 cm.

[I.] 1855. Pl. 16.

61. Mittel-Deutschland's orthodrome Erhebungssysteme von Hauptmann Friedrich Weiss. Scale, 1: 950,000. Size, 24.6×18.7 cm.

[II.] 1856. Pl. 16.

62. Der Dieksand oder Friederichs-Koog, nach der Aufnahme von Wiechers u. Kröhnke gez. von A. Petermann. Scale, 1: 100,000. Size, 10.7×8.3 cm.

[III.] 1857. Pl. 22.

63. [Karte der Landschaft Ditmarschen mit Angabe der Lage von Friederichs-Koog.] Scale, [ca. 1: 1,250,000]. Size, 8.5×8.3 cm.

[III.] 1857. Pl. 22.

64. Skizze des geogr. Verbreitung des Moorrauches in Mai 1857, nach Dr. Prestel's Angaben. Scale, 1: 10,500,000. Size, 8.8×7.5 cm.

[IV.] 1858. P. 106.

65. Die Centralgruppe des Thüringer Waldes. Nach Forstkarten u. eigener Messungen entworfen u. gez. von Major A. W. Fils. Scale, 1: 60,000. Size, 24.5×19.3 cm.

[V.] 1859. Pl. 10.

66. Die neue Grenze zwischen Dänemark und Schleswig. (Nach dem Wiener Friedensvertrag, 30. Okt. 1864.) Von A. Petermann. Scale, 1: 1,500,000. Size, 19.1×16.7 cm.

[X.] 1864. Pl. 15.

67. Schleswig-Holstein und Lauenburg. Scale, 1: 1,500,000. Size, 19.1×16.7 cm.

[X.] 1864. Pl. 15.

[N.B. — Title taken from the general index; the map is the same as the one entitled: Die neue Grenze zwischen Dänemark & Schleswig . . .]

68. [Karte des nördlichen Theiles von Schleswig zur Übersicht der neuen Grenze zwischen Dänemark und Schleswig.] Scale, 1: 450,000. Size, 19.1×7.7 cm.

[X.] 1864. Pl. 15.

69. Übersichtskärtchen zu C. Vogel's Karten des

Thüringer Waldes. Scale, [ca. 1: 1,600,000]. Size, 6.5×5.6 cm.

[XII.] 1866. P. 85.

70. Zwei Ausschnitte aus C. Vogel's Topographischer Karte vom Thüringer Wald: Gruppe des Donnershauk. Gegend bei Weimar. Scale, 1: 150,000. Size, each, 9.4×7.7 cm.

[XII.] 1866. Pl. 4.

71. Helgoland. Scale, 1: 50,000. Size, 5.2×5 cm.

[XII.] 1866. Pl. 7.

72. Helgoland. Scale, 1: 500,000. Size, 1.6×1.8 cm.

[XII.] 1866. Pl. 7.

73. Helgoland und die Düne. Scale, 1: 150,000. Size, 4.4×5 cm.

[XII.] 1866. Pl. 7.

74. Nord-Deutscher Bund im September 1866. Scale, 1: 5,500,000. Size, 23×13 cm.

[XII.] 1866. Pl. 14.

75. Nord-Deutschland vor 50 Jahren. Scale, 1: 5,500,000. Size, 20.3×11.9 cm.

[XII.] 1866. Pl. 14.

76. Preussen und der Nord-Deutsche Bund im September 1866. Entw. v. A. Petermann. Scale, 1: 3,700,000. Size, 40.9×24.5 cm.

[XII.] 1866. Pl. 15.

77. Die im Friedensvertrage von Berlin 3. September 1866 an Preussen abgetretenen Gebiete von Hessen-Darmstadt, sowie das einverleibte Hessen-Homburg & Frankfurt. Scale, 1: 925,000. Size, 6.9×16 cm.

[XII.] 1866. Pl. 15.

78. Die im Friedensvertrage von Berlin 22. August 1866 an Preussen abgetretenen Gebiete Bayerns. Scale, 1: 925,000. Size, 7.5×7.6 cm.

[XII.] 1866. Pl. 15.

79. Übersicht von A. Stieler's Karte von Deutschland, den Niederlanden, Belgien, Schweiz und den angrenzenden Ländern in 25 Blättern. Scale, 1: 740,000. Size, 18.1×15.8 cm.

[XIII.] 1867. P. 216.

80. Plan des Hörseloches oder der Venusgrötte im Hörselberge bei Eisenach. Size, 8.6×8 cm.

[XIII.] 1867. P. 252.

81. Der Thüringer Wald. Eisenach, Wilhelmsthal, Ruhla, Wartberg, Hörselberg, Wutha, Wachstein, Drachenstein. Scale, 1: 60,000. Size, 24.6×19.2 cm.

[XIII.] 1867. Pl. 9.

82. Der Rennstieg im Thüringer Wald und die Verbreitung der Laubmoose in Thüringen. Von A. Röse. Scale, 1: 925,000. Size, 19.1×24.2 cm.

[XIV.] 1868. Pl. 19.

83. [Deutsches Gebiet von Holstein, zum Vergleich mit den Viti- oder Fiji-Inseln.] Scale, 1: 1,500,000. Size, 6.5×7.6 cm.

XV. 1869. Pl. 4.

84. Die Freihafen-Gebiete von Hamburg und Bremen. Nach den Bestimmungen von 1868 zusammengestellt von A. Petermann. Scale, 1: 925,000. Size, 19.1×15.2 cm.

XV. 1869. Pl. 14.

85. Das Freihafengebiete von Bremen. Scale, 1: 250,000. Size, 9.9×8.8 cm.

XV. 1869. Pl. 14.

86. Das Freihafengebiete von Hamburg & Altona. Scale, 1: 250,000. Size, 9.2×8.8 cm.

XV. 1869. Pl. 14.

87. Rechtskarte von Deutschland zur Veranschaulichung der auf dem Gebiete des Privatrechts herrschenden Rechts-Systeme im Jahre 1870. Zusammengestellt v. Richard Schroeder. Scale, 1: 3,700,000. Size, 31×24.9 cm.

XVI. 1870. Pl. 7.

88. Das General-Gouvernement Elsass und die Deutsch-Französische Sprachgrenze. Von A. Petermann. Scale, 1: 740,000. Size, 26.3×34 cm.

XVI. 1870. Pl. 22.

89. Die neue Grenze zwischen Deutschland und Frankreich nach den Friedens-Präliminarien von Versailles 26. Februar 1871, und die Kreis-Eintheilung v. Elsass und Lothringen. Auf C. Vogel's Karte von A. Petermann. Scale, 1: 925,000. Size, 20.1×24.6 cm.

XVII. 1871. Pl. 8.

90. Die Westgrenze Deutsch-Lothringens und die Süd-Westgrenze von Elsass nach dem zu Frankfurt 10. Mai 1871 geschlossenen und am 20. Mai ratificirten Friedensvertrage. Von A. Petermann. Scale, 1: 250,000. Size, 27.5 × 24.6 cm. XVII. 1871. Pl. 15.

91. Südwest Deutschland mit Elsass u. östl. Lothringen vor Ausbruch der französischen Revolution 1789. Entworfen von Th. Menke, bearb. u. gez. von B. Hassenstein (v. Spruner-Menke: Hist. Handatlas. No. 47). Scale, 1: 1,000,000. Size, 40.8 × 33.5 cm. XIX. 1873. Pl. 5.

92. Das Deutsche Reich und seine Nachbarländer zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1: 3,700,000. Size, 40.4 × 33.6 cm. XIX. 1873. Pl. 12.

93. Das Sprachgebiet der Lausitzer Wenden 1550-1872 von Richard Andree. Scale, 1: 750,000. Size, 19.2 × 25 cm. XIX. 1873. Pl. 17.

94. Deutschland, Übersicht der Dichtigkeit der Bevölkerung. Scale, 1: 3,700,000. Size, 41.1 × 33.8 cm. XX. 1874. Pl. 1.

95. Karte der Lehrer-Seminare im Deutschen Reiche. Zusammengestellt von C. Diercke, Seminarlehrer in Berlin. Scale, 1: 3,700,000. Size, 31 × 24.4 cm. XX. 1874. Pl. 10.

96. Plan des Königlichen Schlosses Wilhelmshöhe bei Cassel nebst Umgebung. Bearbeitet und gezeichnet von Joh. Aug. Kaupert. Scale, 1: 6,000. Size, 40.4 × 54 cm. XXI. 1875. Pl. 2.

97. Elsass-Lothringen zur Übersicht der Sprachgrenze vorzüglich nach den neuesten amtlichen Quellen. Scale, 1: 925,000. Size, 21.2 × 28.2 cm. XXI. 1875. Pl. 17.

98. Karte der öffentlichen höheren Unterrichts-Anstalten in Deutschland 1875. Von Dr. Oskar Henke, Oberlehrer. Scale, 1: 3,700,000. Size, 30.9 × 24.5 cm. XXII. 1876. Pl. 9.

99. Die neue Grenze bei Andlam in Preussen. Scale, 1: 100,000. Size, 10.6 × 4 cm. Ergbd. XI. No. 49. 1876. Pl. 1 [2].

100. Nivellements der trigonometrischen Abtheilung der Königlich Preussischen Landes-Aufnahme. Scale, 1: 3,700,000. Size, 31.8 × 24.7 cm.

a. Carton I. & II. [Nivellements der trigonometrischen Abtheilung der Königl. Preussischen Landes-Aufnahme im Kreise Fischhausen.] Scale, 1: 200,000. Size, 11 × 12.4 cm. XXIII. 1877. Pl. 13.

101. Deutschland's Wasserstrassen. Von Dr. Th. H. Schunke. Scale, 1: 3,700,000. Size, 41.1 × 25.1 cm. XXIII. 1877. Pl. 15.

102. Ein Theil von Deutschland . . . zum Vergleich [mit dem östliche Theilen von Nord Amerika]. Scale, 1: 3,700,000. Size, 4.7 × 6 cm. XXIII. 1877. Pl. 19.

103. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1: 3,700,000. Size, 41 × 33.7 cm. XXIV. 1878. Pl. 10.

104. Die Vertheilung des Regens über Deutschland nach den Jahreszeiten. Von Dr. J. van Bebber. Scale, 1: 6,300,000. Winter, Frühling, Sommer, Herbst. Size, each, 17 × 13.5 cm. XXIV. 1878. Pl. 14.

105. Grenzveränderung bei Varzin in Pommern. Scale, 1: 300,000. Size, 10.3 × 12 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

106. Neue Grenze des Reg.-Bez. Stettin bei Demmin. (S. Jahrgang iv. S. 2.) Scale, 1: 100,000. Size, 6.7 × 6.1 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

107. Neue Preuss. Grenze bei Wolde. (S. Jahrgang iv. S. 3.) Scale, 1: 100,000. Size, 3.1 × 4.2 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

108. Grenzveränderung zwischen Preussen und Mecklenburg. (S. Jahrgang iv. S. 4.) Scale, 1: 100,000. Size, 6.7 × 3.8 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

109. Grenzveränderung zwischen Pommern und West-Preussen. Scale, 1: 100,000. Size, 6.7 × 7.8 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

110. Neue Grenze zwischen den Kreissen Weissenfels und Naumburg. Scale, 1: 100,000. Size, 6.7 × 3.8 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

111. Die Umgebung von Halle, Leipzig, Weissenfels zur Darstellung des Zusammenströmens der Bevölkerung von platten Lande nach den grossen Städten & Industriebezirken 1864-1875. Von Otto Delitsch. Scale, 1: 375,000. Size, 24.7 × 19.1 cm. XXVI. 1880. Pl. 6.

112. Die Waldungen des Bayerischen Spessart. Von Oberförster Dr. R. Weber. Scale, 1: 200,000. Size, 24.5 × 30.9 cm. XXVI. 1880. Pl. 10.

113. Karte des Weser-Stromes von Bremen bis Bremerhaven. Nach den im Maassstabe von 1: 4,000 aufgenommenen und in den Jahren 1878 & 1879 vollendeten Specialkarten der Uferstaaten: Preussen, Oldenburg u. Bremen reducirt von Ingenieur R. Zacherl. Scale, 1: 50,000. Size, 74 × 46.7 cm. XXVI. 1880. Pl. 14.

114. Austernbänke des schleswighschen Wattenmeer's. Scale, 1: 1,800,000. Size, 3.4 × 5 cm. Ergbd. XIII. No. 60. 1880.

115. Übersicht der neuen französischen Landesbefestigung. Zusammengestellt auf C. Vogel's Karte von Frankreich in 4 Bl. Scale, 1: 1,500,000. Size, 32.3 × 32 cm. XXVII. 1881. Pl. 7.

3. Austria-Hungary.

116. Siebenbürgen, physikalisch-statistische Skizzen zusammengestellt von A. Petermann. Scale, 1: 1,850,000. Size, 19 × 24.6 cm. [III.] 1857. Pl. 25.

117. Bevölkerung Siebenbürgens. Scale, 1: 3,400,000. Size, 9.5 × 8.5 cm. [III.] 1857. Pl. 25.

118. Die Walder Siebenbürgens nach Andreas Mersich. Scale, 1: 3,400,000. Size, 9.5 × 8.5 cm. [III.] 1857. Pl. 25.

119. Skizze des geogr. Verbreitung des Moorrauches im Mai 1857, nach Dr. Prestel's Angaben. Scale, 1: 10,500,000. Size, 8.8 × 7.5 cm. [IV.] 1858. P. 106.

120. Geologische Aufnahmen des Österreichischen Kaiserstaates bis 1858. Scale, 1: 8,000,000. Size, 18.1 × 9.8 cm. [IV.] 1858. P. 313.

121. Häfen des Adriatischen Meeres. Nach den besten vorhandenen Aufnahmen zusammengestellt von A. Petermann.

a. Spalato. Scale, 1: 25,000. Size, 9.6 × 7.5 cm.

b. Ragusa & Gravosa. Scale, 1: 50,000. Size, 14.7 × 11.9 cm.

c. Triest. Scale, 1: 25,000. Size, 9.3 × 9.1 cm.

d. Fiume. Scale, 1: 25,000. Size, 7.3 × 4.2 cm.

e. Zara. Scale, 1: 25,000. Size, 8.5 × 9.2 cm.

f. Pola. Scale, 1: 50,000. Size, 9.3 × 6.9 cm.

g. Bocche oder Golf von Cattaro. Scale, 1: 150,000. Size, 17.6 × 11.7 cm.

h. Cattaro. Scale, 1: 50,000. Size, 4.2 × 3.4 cm.

[V.] 1859. Pl. 13.

122. Orogr.-Physike Karte des Gross-Glockner und seiner Umgebung. Auf Grund achtjähriger Untersuchungen und Arbeiten von Franz Keil. Scale, 1: 100,000. Size, 19.6 × 19 cm. [VI.] 1860. Pl. 4.

123. Karte des Österreichischen Kaiserstaates zur Übersicht der Dichtigkeit der Bevölkerung nach

dem Census von 1857. Von A. Petermann. Scale, 1: 6,000,000. Size, 19 X 16.4 cm. [VI.] 1860. Pl. 7.

124. Physikalisch-Statistische Karte von Ungarn, Galizien, Siebenbürgen, &c. Die Höhengschichten von A. Petermann, die Grenzen von A. Ficker. Scale, 1: 3,700,000. Size, 24.6 X 19.1 cm.

[VIII.] 1862. Pl. 1.
125. Geologische Übersichtskarte des Österreichischen Kaiserstaates. Nach den Übersichts-Aufnahmen der K. K. Geologischen Reichsanstalt in Wien. Scale, 1: 5,250,000. Size, 24.6 X 19 cm.

[IX.] 1863. Pl. 14.
126. Physikalische und statistische Kartenskizzen von Österreich. Von A. Petermann.

1. Hydrographische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.5 X 6.3 cm.

2. Orographische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.5 X 6.3 cm.

3. Geologische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.5 X 6.3 cm.

4. Klimatographische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.4 X 6.3 cm.

5. Hyetographische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.5 X 6.3 cm.

6. Volksdichtigkeit Österreich's. Scale, 1: 12,000,000. Size, 11.8 X 6.3 cm.

7. Ethnographie Österreich's. Scale, 1: 12,000,000. Size, 11.8 X 6.3 cm.

8. Religionen Österreich's. Scale, 1: 12,000,000. Size, 11.8 X 6.3 cm.

9. Kultur & Industrie Österreich's. Scale, 1: 12,000,000. Size, 11.8 X 6.3 cm.

[X.] 1864. Pl. 5.
127. Ausdehnung der Aussicht vom Gross-Glockner. Scale, [ca. 1: 6,800,000]. Size, 8 X 6.5 cm.

[X.] 1864. Pl. 11.
128. Terrain- und Höhenkarte der Hohen Tatra in den Central-Karpaten nach eigenen sowie nach den besten älteren Messungen, u. auf Grundlage der K. K. Mapping entworfen u. gezeichnet von Prof. C. Kořistka in Prag. Scale, 1: 100,000. Size, 36.2 X 25.4 cm. Ergbd. III. No. 12. 1864.

129. Karte der Ortles- und Adamello-Gruppe, zu Dr. Lorentz's Reise. Scale, 1: 450,000. Size, 18.9 X 24.4 cm. [XI.] 1865. Pl. 2.

130. Geologische Kartenskizze [des Adamello-Presanella Gebietes] von J. Trinker. Scale, [ca. 1: 880,000]. Size, ca. 8 X 8.5 cm.

Ergbd. IV. No. 17. 1865. P. 18.
131. Originalkarte der Adamello-Presanella Alpen. Von Julius Payer. Scale, 1: 56,000. Size, 24.6 X 19.1 cm. Ergbd. IV. No. 17. 1865.

132. Originalkarte des Sölden-Gebietes. Von Julius Payer. 1865. Scale, 1: 48,000. Size, 18.9 X 23.4 cm. Ergbd. IV. No. 18. 1865.

133. Kartenskizze zur Übersicht der hauptsächlichsten Bewegungen und Operationen der Preussen im siebenjährigen Kriege im nördl. Böhmen, 27. Juni-3. Juli 1866. Von A. Petermann. Scale, 1: 300,000. Size, 43.3 X 24.6 cm. [XII.] 1866. Pl. 12.

134. Skizze zur Übersicht des Schlachtfeldes von Königgrätz 3. Juli 1866. Nach Zeitungsberichten bis zum 25. Juli entw. von A. Petermann. Scale, 1: 100,000. Size, 18.7 X 14.4 cm.

[XII.] 1866. Pl. 12.
135. Originalkarte der westlichen Ortleralpen von Julius Payer, 1866. Scale, 1: 36,000. Size, ca., 36.2 X 25.4 cm. Ergbd. V. No. 23. 1868.

136. Die Ausdehnung der Slaven in der Türkei und den angrenzenden Gebieten. Nach den neuesten Untersuchungen von A. Petermann. Scale, 1: 3,700,000. Size, 40.9 X 33.9 cm. XV. 1869. Pl. 22.

137. Bocche di Cattaro. Scale, 1: 250,000. Size, 8.5 X 11.1 cm. XV. 1869. Pl. 22.

138. Originalkarte der südlichen Ortler-Alpen. Von Julius Payer. Nach dessen Messungen in 1867. Scale, 1: 56,000. Size, 30.3 X 24.7 cm.

Ergbd. VI. No. 27. 1869.

139. Die Mittel- und Ost-Alpen in ihrer orographischen Gruppierung. Nach Carl v. Sonklar K. K. Oberst. Bearbeitung der Karte von Herm. Berghaus & C. Vogel. Scale, 1: 1,850,000. Size, 43 X 24.9 cm. XVI. 1870. Pl. 17.

140. Index-Karte zu Mayr und Berghaus' Karte der Alpen in 8 Bl. Scale, [ca. 1: 5,000,000]. Size, 14.1 X 6.2 cm. XVIII. 1872. P. 139.

141. Originalkarte des Marteller Alpencomplexes, aufgenommen von Oberleutnant Julius Payer 1868. Scale, 1: 56,000. Size, 30.1 X 24.4 cm. Ergbd. VII. No. 31. 1872.

142. Kämme und Thäler der Zillertaler Alpen. Scale, 1: 400,000. Size, ca., 18.3 X 24 cm. Ergbd. VII. No. 32. 1872. Pl. 1.

143. Geognostische Karte der Zillertaler Alpen. Scale, 1: 400,000. Size, ca., 19 X 24 cm. Ergbd. VII. No. 32. 1872. Pl. 2.

144. Karte der Zillertaler Alpen, entworfen und gezeichnet von Carl von Sonklar, k. k. Oberst etc. Scale, 1: 144,000. Size, 43.3 X 52.4 cm. Ergbd. VII. No. 32. 1872. Pl. 3.

145. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1: 3,700,000. Size, 40.4 X 33.6 cm. XIX. 1873. Pl. 12.

146. Kämme & Thäler der Vorarlberger & Lechtaler Alpen, Rhätikon Kette & Silvretta Gruppe. Nach den besten Quellen zusammengestellt von A. Waltenberger. Scale, 1: 600,000. Size, 19.1 X 24.9 cm. Ergbd. IX. No. 40. 1875. Pl. 1.

147. Geologische Übersichtskarte der Gebirgsgruppe zwischen Rhein- und Ober-Inn-Thal. Nach den besten Quellen zusammengestellt von A. Waltenberger. Scale, 1: 600,000. Size, 19 X 24.7 cm. Ergbd. IX. No. 40. 1875. Pl. 2.

148. Hypsometrische Karte der Oberlechthaler Alpen, Rhätikon Kette und Silvretta Gruppe. Entworfen und gezeichnet von A. Waltenberger, Kg. B. Bezirksgeometer. Scale, 1: 200,000. Size, 55.9 X 48.9 cm. Ergbd. IX. No. 40. 1875. Pl. 1. [3.]

149. Deutsche und Romanen in Süd-Tirol und Venetien. Nach Chr. Schneller von A. Petermann. Scale, 1: 740,000. Size, 43.3 X 25.2 cm. XXIII. 1877. Pl. 17.

150. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1: 3,700,000. Size, 41 X 33.7 cm. XXIV. 1878. Pl. 10.

151. Hallein und Berchtesgaden. Heliogravure des k. k. Militär-geographischen Institutes zu Wien. Scale, 1: 100,000. Size, 37.7 X 28.6 cm. XXIV. 1878. Pl. 12.

4. Switzerland.

152. Prof. J. D. Forbes's Karte vom Mer de Glace und dem angrenzenden Gebiete. — Map of the Mer de Glace of Chamouni and of the adjoining district from an actual survey in 1842-4-6 and 1850, by Professor James D. Forbes. Scale, 1: 50,000. Size, 34.3 X 30.2 cm. [I.] 1855. Pl. 17.

153. Der Boden-See (zum Vergleich) [mit dem Ngami-See in Afrika]. Scale, 1: 1,000,000. Size, 8.5 X 3.8 cm. [II.] 1856. P. 103.

154. Karte zur Übersicht der geographischen Ausdehnung des Erdbebens von Visp am 25. Juli 1855. Nach Dr. Volger's Angaben gezeichnet von A. Petermann. Scale, 1: 2,800,000. Size, 19 X 24.4 cm. [II.] 1856. Pl. 7.

155. Der Central-Bezirk des Erdbens von Visp. Scale, [ca. 1:700,000]. Size, 3.5 × 6 cm.

[II.] 1856. Pl. 7.

156. Probe aus J. G. Mayr's Atlas der Alpenländer. Scale, 1:450,000. Size, 24.8 × 19.6 cm.

[IV.] 1858. Pl. 12.

157. Der Boden-See (... zum Vergleich) [mit den Seen im Innern Australiens']. Scale, 1:1,000,000. Size, 6.2 × 3.9 cm.

[V.] 1859. Pl. 7.

158. Der Canton Graubünden zur Übersicht der Pass-Linien im Profil. (Aus Stieler's Hand-Atlas.) Scale, 1:800,000. Size, 19.1 × 13.3 cm.

[VIII.] 1862. Pl. 2.

159. [Karte der] Alpen-Seen im Maassstabe, 1:6,000,000 [zum Vergleich mit den Seen im Nil-Quellgebiete]. Scale, 1:6,000,000. Size, 6.6 × 4.3 cm.

[IX.] 1863. Pl. 10.

160. Übersichtskarte der Schweiz. Topogr. Grundlage von C. Vogel, aus Stieler's H. Atlas. Meteor. Stat* & Schichten von A. Petermann. Scale, 1:1,850,000. Size, 19.3 × 12.7 cm.

[X.] 1864. Pl. 12.

161. Stachelberg und Umgebung. Von A. Petermann. Scale, 1:250,000. Size, 12.8 × 11.9 cm.

[X.] 1864. Pl. 12.

162. Exkursionskarte des Alpenclub für 1864. Nach der Eidgenössischen Vermessung. Scale, 1:100,000. Size, 31.5 × 22.5 cm.

[X.] 1864. Pl. 13.

163. Ober-Wallis, Berner Alpen & Simplongebirge. Gezeichnet und gestochen von R. Leuzinger in Bern. Scale, 1:200,000. Size, 44.3 × 23.2 cm.

[XII.] 1866. Pl. 11.

164. Übersicht von A. Stieler's Karte von Deutschland, den Niederlanden, Belgien, Schweiz und den angrenzenden Ländern in 25 Blättern. Scale, 1:740,000. Size, 18.1 × 15.8 cm.

[XIII.] 1867. P. 216.

165. Die Schweiz (Stieler's Schul Atlas No. 19). Von Herm. Berghaus. Scale, 1:1,200,000. Size, 27.9 × 21.4 cm.

[XIII.] 1867. Pl. 11.

166. Umgegend des Rigi & Pilatus ... [zum Vergleich mit den neuesten Russischen Forschungen im Thian-Schan-System]. Scale, 1:1,500,000. Size, 2.6 × 1.7 cm.

XV. 1869. Pl. 9.

167. Die Schweizer Alpen und ihre orographische Gruppierung. Bearbeitung der Karte von C. Vogel, Gruppierung von B. Studer. Scale, 1:925,000. Size, 40.4 × 25.1 cm.

XV. 1869. Pl. 13.

168. Die Mittel- und Ost-Alpen in ihrer orographischen Gruppierung. Nach Carl v. Sonklar K. K. Oberst. Bearbeitung der Karte von Herm. Berghaus & C. Vogel. Scale, 1:1,850,000. Size, 43 × 24.9 cm.

XVI. 1870. Pl. 17.

169. Grindewald. Scale, 1:50,000. Size, 40.7 × 30 cm.

XVII. 1871. Pl. 16.

170. Index-Karte zu Mayr und Berghaus' Karte der Alpen in 8 Bl. Scale, [ca. 1:5,000,000]. Size, 14.1 × 6.2 cm.

XVIII. 1872. P. 139.

171. Mayr's Alpenkarte I. No. 4. Scale, 1:450,000. Size, 36.2 × 33.2 cm.

XVIII. 1872. Pl. 7.

172. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1:3,700,000. Size, 40.4 × 33.6 cm.

XIX. 1873. Pl. 12.

173. Die neue Grenze zwischen Italien und der Schweiz, im Val di Campo. Scale, 1:100,000. Size, 8.7 × 6.2 cm. Ergbd. XI. No. 49. 1876. Pl. 1 [2].

174. Die Gletscher der Schweiz während der Eiszeiten. Scale, [ca. 1:3,700,000]. Size, 10.2 × 7.3 cm.

XXIV. 1878. Pl. 6.

175. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1:3,700,000. Size, 41 × 33.7 cm.

XXIV. 1878. Pl. 10.

176. Übersicht der neuen französischen Landesbefestigung. Zusammengestellt auf C. Vogel's Karte von Frankreich in 4 Bl. Scale, 1:1,500,000. Size, 32.3 × 32 cm. XXVII. 1881. Pl. 7.

177. Kärtchen der drei Kehrtunnel [St. Gotthard-Bahn] bei Wassen. Scale, 1:25,000. Size, 8.8 × 21 cm. Ergbd. XIV. No. 65. 1881. P. 17.

178. Kärtchen der Strecke [St. Gotthard-Bahn] zwischen Göschenen und Andermatt. Scale, 1:25,000. Size, 8.8 × 17 cm.

Ergbd. XIV. No. 65. 1881. P. 72.

179. Karte der St. Gotthard-Bahn in drei Blättern. Nach dem endgültigen Eisenbahn-Tracé und im Auftrag der St. Gotthard-Direction reduziert auf Dufour's Karte der Schweiz. Gestochen im Topographischen Institut von Wurster Randegger & Co. in Winterthur 1880. Scale, 1:100,000. Size: Bl. 1, 58.6 × 24.9 cm.; Bl. 2, 56.2 × 24.9 cm.; Bl. 3, 50 × 24.9 cm. Ergbd. XIV. No. 65. 1881. Pl. 1-3.

5. Denmark and the Scandinavian Peninsula.

180. Übersicht der Russisch-Skandinavischen Grad-Messung zwischen der Donau und dem Nord-Kap. Gez. von B. Hassenstein. Scale, 1:11,600,000. Size, 6.5 × 24.6 cm. [III.] 1857. Pl. 14.

181. Karte vom südl. Schweden zur Übersicht der bis zum J. 1859 ausgeführten trigonometrischen, topographischen & kartographischen Arbeiten des Königl. Schwedischen Topographen Corps. Nach Schwedischem Original. Scale, 1:5,000,000. Size, 19.1 × 24.2 cm. [VI.] 1860. Pl. 19.

182. Kartenskizze des Lyse Fjords nebst den umliegenden Küsten. Mit Benutzung einer Originalzeichnung des Ing. Lieut. Schie von A. Petermann. Scale, 1:280,000. Size, 24.6 × 19.2 cm.

Ergbd. [I.] No. 1.]. 1860.

183. Übersicht der Dänischen Monarchie von A. Petermann.

a. Übersicht der Dänischen Colonien. Scale, 1:70,000,000. Size, 5.9 × 7.7 cm.

b. Island. Scale, 1:6,000,000. Size, 9.6 × 7.8 cm.

c. Island (Physikalisch und Administrativ). Scale, 1:6,000,000. Size, 9.6 × 7.8 cm.

d. Die Fär-Öer. Scale, 1:1,500,000. Size, 6.6 × 7.7 cm.

e. Das Dänische Westindien. Scale, 1:1,500,000. Size, 6.6 × 7.7 cm.

f. Das Dänische Grönland. Scale, 1:15,000,000. Size, 9.5 × 10.1 cm.

g. Kjöbenhavn (Kopenhagen). Scale, 1:100,000. Size, 9.5 × 10.6 cm.

[VIII.] 1862. Pl. 9.

184. Die neue Grenze zwischen Dänemark und Schleswig. (Nach dem Wiener Friedensvertrag, 30. Okt. 1864.) Von A. Petermann. Scale, 1:1,500,000. Size, 19.1 × 16.7 cm. [X.] 1864. Pl. 15.

185. Fischereigründe bei Lofoten und Westeraalen. Von J. N. Mohn. Scale, 1:6,000,000. Size, 3.4 × 4.4 cm. Ergbd. XIII. No. 60. 1880.

186. [Das wichtigste Fischereigebiet bei] Dänemark. Scale, 1:6,000,000. Size, 4.3 × 5 cm.

Ergbd. XIII. No. 60. 1880.

6. Belgium and the Netherlands.

187. Geographisch-statistische Darstellungen der Niederlande. Zusammengestellt von J. Kuyper. [16 Cartons.] Scale, 1:5,600,000. Size (total), 19.3 × 24.2 cm.; each, 4.6 × 5.8 cm.

[III.] 1857. Pl. 12.

188. Übersicht von A. Stieler's Karte von Deutschland, den Niederlanden, Belgien, Schweiz und den angrenzenden Ländern in 25 Blättern. Scale, 1:740,000. Size, 18.1 × 15.8 cm.

[XIII.] 1867. P. 216.

189. Entwurf zur Trockenlegung des südlichen Theiles der Zuiderzee. Mitgetheilt durch I. Kuiper. Scale, 1:425,000. Size, 19.1 × 24.8 cm.

XXII. 1876. Pl. 16.

190. Aduatuca. Caes. bell. Gall. V. 24-37; VI. 32-42 auctore Alb. v. Kampen. Scale, 1:50,000. Size, 27.6 × 21.4 cm.

a. Legionum distributio V. 24. Scale, 1:5,000,000. Size, 6.2 × 7.2 cm.

b. Ciceronis castra oppugnata, V. 38-51. Scale, 1:40,000. Size, 6.2 × 7.2 cm.

XXV. 1879. Pl. 12.

191. Flandern. Scale, 1:1,500,000. Size, 10.1 × 7.5 cm.

XXVII. 1881. Pl. 19.

7. Great Britain.

192. Die Orkney und Shetland Inseln. Nach Aufnahmen der Britischen Admiralität und anderen Quellen von A. Petermann. Scale, 1:1,000,000. Size, 19.1 × 24.5 cm.

[I.] 1855. Pl. 6.

193. Skizze zur Übersicht der Längen- und Höhen-Ausdehnung der Englischen wissenschaftlichen Luft-Schiffahrten im Jahre 1852. Scale, [ca. 1:1,200,000]. Size, 7.9 × 7.5 cm.

[II.] 1856. P. 333.

194. Ireland (... zum Vergleich) [mit dem Britisch-Columbien]. Scale, 1:4,560,000. Size, 7.4 × 9.8 cm.

[IV.] 1858. Pl. 20.

195. Die Veränderungen der Mersey-Mündung in den Jahren 1689, 1755, 1813 und 1847. Scale, 1:300,000. Size, 8.9 × 21 cm.

[VI.] 1860. P. 273.

196. Die Westküste von Schottland, nach der Englischen Admiralitäts-Aufnahme 1838-1862, von A. Petermann. Scale, 1:1,500,000. Size, 19.5 × 24.8 cm.

[VIII.] 1862. Pl. 13.

197. Das wichtigste Fischereigebiete im süd-westlichen Schottland. Scale, [1:6,000,000]. Size, 4.3 × 2.5 cm.

Ergbd. XIII. No. 60. 1880.

8. France.

198. Prof. J. D. Forbes' Karte vom Mer de Glace und dem angrenzenden Gebiete. — Map of the Mer de Glace of Chamouni and of the adjoining district from an actual survey in 1842-46 and 1850, by Professor James D. Forbes. Scale, 1:50,000. Size, 34.3 × 30.2 cm.

[I.] 1855. Pl. 17.

199. Europäische Inseln [Corsica & Sardinia] zum Vergleich [mit den Inseln der Central Gruppen von Polynesien]. Scale, 1:15,000,000. Size, 2.5 × 3.7 cm.

[III.] 1857. Pl. 2.

200. Probe aus J. G. Mayr's Atlas der Alpenländer. Scale, 1:450,000. Size, 24.8 × 19.6 cm.

[IV.] 1858. Pl. 12.

201. Das General-Gouvernement Elsass und die Deutsche-Französische Sprachgrenze. Von A. Petermann. Scale, 1:740,000. Size, 26.3 × 34 cm.

XVI. 1870. Pl. 22.

202. Paris und Umgebung. Bearb. von C. Vogel. Scale, 1:150,000. Size, 15.1 × 13.8 cm.

XXVII. 1871. Pl. 1.

203. Frankreich in seiner politischen Gestaltung zu Anfang Dezember 1870. Bearb. von Herm. Berg-haus. Scale, 1:3,700,000. Size, 30.9 × 24.8 cm.

XXVII. 1871. Pl. 2.

204. Umgebungen von Paris. Scale, 1:740,000. Size, 6.7 × 4.8 cm.

XXVII. 1871. Pl. 2.

205. Die neue Grenze zwischen Deutschland und Frankreich nach den Friedens-Präliminarien von Versailles 26. Februar 1871, und die Kreis-Eintheilung v. Elsass und Lothringen. Auf C. Vogel's Karte von A. Petermann. Scale, 1:925,000. Size, 20.1 × 24.6 cm.

XXVII. 1871. Pl. 8.

206. Die Westgrenze Deutsch-Lothringens und die Süd-Westgrenze von Elsass nach dem zu Frankfurt 10. Mai 1871 geschlossen und am 20. Mai ratificirten Friedensverträge. Von A. Petermann. Scale, 1:250,000. Size, 27.5 × 24.6 cm.

XXVII. 1871. Pl. 15.

207. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1:3,700,000. Size, 40.4 × 33.6 cm.

XIX. 1873. Pl. 12.

208. Elsass-Lothringen, zur Übersicht der Sprachgrenze, vorzüglich nach den neuesten amtlichen Quellen. Scale, 1:925,000. Size, 21.2 × 28.2 cm.

XXI. 1875. Pl. 17.

209. Das Deutsche Reich und seine Nachbarländer. Zur Übersicht der Eisenbahnen und Dampfschiffahrten. Bearbeitet von C. Vogel. Scale, 1:3,700,000. Size, 41 × 33.7 cm.

XXIV. 1878. Pl. 10.

210. Aduatuca. Caes. bell. Gall. V. 24-37; VI. 32-42 auctore Alb. v. Kampen. Scale, 1:50,000. Size, 27.6 × 21.4 cm.

a. Legionum distributio V. 24. Scale, 1:5,000,000. Size, 6.2 × 7.2 cm.

b. Ciceronis castra oppugnata, V. 38-51. Scale, 1:40,000. Size, 6.2 × 7.2 cm.

XXV. 1879. Pl. 12.

211. Grenze zwischen Frankreich und Spanien in der Bai von Figuer. Scale, 1:50,000. Size, 8.8 × 11.1 cm.

Ergbd. XIV. No. 62. 1880. P. 13.

212. Übersicht der neuen französischen Landesbefestigung. Zusammengestellt auf C. Vogel's Karte von Frankreich in 4 Bl. Scale, 1:1,500,000. Size, 32.3 × 32 cm.

XXVII. 1881. Pl. 7.

213. Die neue Festung Paris. Scale, 1:600,000. Size, 10.5 × 7.6 cm.

XXVII. 1881. Pl. 7.

214. Die Wasserstrassen Frankreich's. Nach der Carte de la navigation intérieure de la France, herausgegeben vom Ministerium der öffentlichen Arbeiten i. J. 1878. Scale, 1:3,700,000. Size, 31.6 × 24.5 cm.

XXVII. 1881. Pl. 19.

215. Paris und Umgegend. Scale, 1:1,500,000. Size, 6 × 5 cm.

XXVII. 1881. Pl. 19.

9. Spain and Portugal.

216. Kartenskizze zur Übersicht der Städte-Bevölkerung der Pyrenäischen Halbinsel, von A. Petermann. Scale, 1:9,500,000. Size, 12.8 × 9.7 cm.

[II.] 1856. P. 393.

217. Portugal vor der neuen Landesaufnahme. Von C. Vogel. Scale, 1:1,500,000. Size, 21.7 × 52.6 cm.

XXVII. 1871. Pl. 17.

218. Portugal nach der neuen Landesaufnahme. Von C. Vogel. Scale, 1:1,500,000. Size, 21.7 × 52.6 cm.

XXVII. 1871. Pl. 17.

219. Delta des Ebro. Scale, 1:1,500,000. Size, 3.9 × 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 2.

220. Tunfischerei an der Südküste von Portugal. Scale, 1:1,500,000. Size, 7.2 × 2.3 cm.

Ergbd. XIII. No. 60. 1880.

221. Die Serra da Estrella. Scale, 1:500,000. Size, 24.8 × 19.4 cm.

Ergbd. XIV. No. 61. 1880.

222. Grenze zwischen Frankreich und Spanien in der Bai von Figuer. Scale, 1:50,000. Size, 8.8 X 11.1 cm. Ergbd. XIV. No. 62. 1880. Pl. 13.

10. Italy.

223. Europäische Inseln [Corsica & Sardinia] zum Vergleich [mit den Inseln der Central-Gruppen von Polynesien]. Scale, 1:15,000,000. Size, 2.5 X 3.7 cm. [III.] 1857. Pl. 2.

224. Häfen des Adriatischen Meeres. Nach den besten vorhandenen Aufnahmen zusammengestellt von A. Petermann.

a. Venedig und Chioggia. Scale, 1:100,000. Size, 8.6 X 14.2 cm.

A. Ancona. Scale 1:25,000. Size, 10.3 X 7.5 cm. [V.] 1859. Pl. 13.

225. Ethnographisch-Statistische Karte von Italien. Von A. Petermann. Scale, 1:5,500,000. Size, 19.3 X 24.6 cm. [V.] 1859. Pl. 14.

226. Kultur-Gebiete von Nord-Italien. Scale, 1:6,300,000. Size, 9.1 X 7.5 cm. [V.] 1859. Pl. 14.

227. Der Etna und seine Umgebung, aufgenommen von W. Sartorius von Waltershausen, 1835-43. Scale, 1:500,000. Size, 9.2 X 9.6 cm. [X.] 1864. Pl. 4.

228. Karte der Orties- und Adamello-Gruppe. Zu Dr. Lorentz's Reise. Scale, 1:450,000. Size, 18.9 X 24.4 cm. [XI.] 1865. Pl. 2.

229. Der Aviole-Pass [Adamello-Gruppe]. Scale, 1:225,000. Size, 5 X 5 cm. [XI.] 1865. Pl. 2.

230. Originalkarte der Adamello-Presanella Alpen. Von Julius Payer. Scale, 1:56,000. Size, 24.6 X 19.1 cm. Ergbd. IV. No. 17. 1865.

231. Neapel und Umgegend. Scale, 1:500,000. Size, 16.4 X 12.8 cm. [XII.] 1866. Pl. 7.

232. Originalkarte der westlichen Orties-Alpen von Julius Payer, 1866. Scale, 1:36,000. Size, ca., 36.2 X 25.4 cm. Ergbd. V. No. 23. 1863.

233. Originalkarte der südlichen Orties-Alpen. Von Julius Payer. Nach dessen Messungen in 1867. Scale, 1:56,000. Size, 30.3 X 24.7 cm. Ergbd. VI. No. 27. 1869.

234. Die Mittel- und Ost-Alpen in ihrer orographischen Gruppierung. Nach Carl v. Sonklar K. K. Oberst. & C. Vogel. Scale, 1:1,850,000. Size, 43 X 24.9 cm. XVI. 1870. Pl. 17.

235. Index-Karte zu Mayr und Berghaus' Karte der Alpen in 8 Bl. Scale, [ca. 1:5,000,000]. Size, 14.1 X 6.2 cm. XVIII. 1872. P. 139.

236. Mayr's Alpenkarte I. No. 4. Scale, 1:450,000. Size, 36.2 X 33.2 cm. XVIII. 1872. Pl. 7.

237. Malta zum Vergleich [mit dem San Juan-oder Haro-Archipel]. Scale, 1:500,000. Size, 6.8 X 4.4 cm. XIX. 1873. Pl. 4.

238. Die neue Grenze zwischen Italien und der Schweiz, im Val di Campo. Scale, 1:100,000. Size, 8.7 X 6.2 cm. Ergbd. XI. No. 49. 1876. Pl. 1 [2].

239. Deutsche und Romanen in Süd-Tirol und Venetien. Nach Chr. Schneller von A. Petermann. Scale, 1:740,000. Size, 43.3 X 25.2 cm. XXIII. 1877. Pl. 17.

240. Die Gletscher der Lombardei während der Eiszeiten. Scale, [ca. 1:3,700,000]. Size, 10.1 X 5.2 cm. XXIV. 1878. Pl. 6.

241. Zertheilung des Lago di Como durch das Delta der Adda. Scale, 1:300,000. Size, 6.8 X 4.3 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

242. Karte der St. Gotthard-Bahn in drei Blättern. Nach dem endgültigen Eisenbahn-Tracé und im Auf-

trag der St. Gotthard-Direction reduziert auf Dufour's Karte der Schweiz. Gestochen im Topographischen Institut von Wurster Randegger & Co. in Winterthur 1880. Scale, 1:100,000. Size: Bl. 1, 58.6 X 24.9 cm.; Bl. 2, 56.2 X 24.9 cm.; Bl. 3, 50 X 24.9 cm. Ergbd. XIV. No. 65. 1881. Pl. 1-3.

11. European Turkey.

(The whole of the Balkan Peninsula exclusive of Greece and Dalmatia.)

243. Die Russisch-Türkische Grenze an den Donau-Mündungen, nach den Bestimmungen des Friedens-Congresses von Paris 30. März 1856. Gez. von F. v. Stülpnagel. Scale, 1:1,250,000. Size, 19.5 X 24.6 cm. [II.] 1856. Pl. 9.

244. Die Russisch-Türkische Grenze an den Donau-Mündung. Nach den Bestimmungen vom 6. Januar 1857. Von A. Petermann. Scale, 1:1,250,000. Size, 12.6 X 13.9 cm. [III.] 1857. P. 129.

245. Carte ethnographique de la Turquie d'Europe, et des Etats vassaux autonomes. Par G. Lejean. Scale, 1:2,500,000. Size, 52.1 X 42.9 cm.

a. Partie Orient. de la Servie. Scale, [ca. 1:1,500,000]. Size, 12.9 X 10.9 cm.

b. Delta du Danube. Scale, [ca. 1:1,500,000]. Size, 14.4 X 10.8 cm.

c. Candie. Scale, [ca. 1:2,300,000]. Size, 11.7 X 4.7 cm. Ergbd. [I.] [No. 4.] 1861.

246. Orographisch-physikalische Karte von Kandia oder Kreta. Nach den Aufnahmen von Kapitän T. Spratt 1852. Von A. Petermann. Scale, 1:650,000. Size, 42.9 X 24.6 cm. [XI.] 1865. Pl. 13.

247. Ethnographische Karte von Kandia oder Kreta. Nach den Angaben von Pashley und Spratt. Von A. Petermann. Scale, 1:650,000. Size, 43 X 24.7 cm. [XII.] 1866. Pl. 16.

248. Die Ausdehnung der Slaven in der Türkei und den angrenzenden Gebieten. Nach den neuesten Untersuchungen von A. Petermann. Scale, 1:3,700,000. Size, 40.9 X 33.9 cm. XV. 1869. Pl. 22.

249. Übersicht von G. Lejean's Reiserouten in der Türkei 1857-1870. Nach seiner Mittheilung von A. Petermann. Scale, 1:2,500,000. Size, 31.2 X 24.8 cm. XVI. 1870. Pl. 16.

250. Originalkarte der Central-Türkei nach Aufnahmen vom Jahre 1869 entworfen von Ferdinand von Hochstetter 1870. Scale, 1:420,000. Size, 49 X 36.5 cm. XVIII. 1872. Pl. 1.

251. Übersicht von F. Kanitz' Reisen in Bulgarien 1870-1874. Von A. Petermann. Scale, 1:2,500,000. Size, 24.6 X 19.7 cm. XX. 1874. Pl. 22.

252. Die Europäische Türkei. Die neueste Einteilung, die Türkischen Gebiete & die Confessionen in der Türkei. Von A. Petermann. Scale, 1:2,500,000. Size, 41.2 X 34 cm. XXII. 1876. Pl. 13.

253. Der Bosphorus und Umgebung. Scale, 1:500,000. Size, 6.8 X 8.6 cm. XXII. 1876. Pl. 13.

254. Constantinopel und Umgebung. Scale, 1:150,000. Size, 8.6 X 6 cm. XXII. 1876. Pl. 13.

255. Original-Karte von Donau-Bulgarien, dem Balkan und Süd-Ost Serbien nach seinen Reise-Aufnahmen von F. Kanitz. Scale, 1:625,000. Size, 97.5 X 35.2 cm. XXIII. 1877. Pl. 16.

256. Die politischen Verhältnisse der Balkan-Halbinsel im 14. Jahrhundert. (Auszug aus Th. Menke's Karte: "Länder am Ägäischen & Schwarzen Meer 1311-1390" in Spruner-Menke Histor.

Handatlas, 19. Lief. No 88.) Scale, 1:5,000,000. Size, 24.5 × 33.2 cm. XXIV. 1878. Pl. 8.

257. Reich des Stephan Duschau um 1346. Scale, 1:10,000,000. Size, 11.9 × 8 cm. XXIV. 1878. Pl. 8.

258. Die Staaten der Balkan-Halbinsel nach den Grenzbestimmungen des Friedens von S. Stefano 3. März 1878. Nach den Karten und dem Wortlaut des Friedensvertrags von A. Petermann. Scale, 1:6,000,000. Size, 21.5 × 21.4 cm. XXIV. 1878. Pl. 11a.

259. Die politischen Verhältnisse und neuen Staaten-Grenzen von Südost-Europa und Vorder-Asien nach dem Berliner Verträge 13. Juni-13. Juli 1878. Von A. Petermann. Scale, 1:7,500,000. Size, 43.6 × 24.7 cm. XXIV. 1878. Pl. 20.

260. Delta der Donau. Scale, 1:3,700,000. Size, 3.8 × 5.5 cm. Ergbd. XII. No. 56. 1878. Pl. 2.

261. Das secundäre Delta des Kilia-Armes am Aussenrande des Donau-Delta's. Scale, 1:500,000. Size, 9.3 × 5.5 cm. Ergbd. XII. No. 56. 1878. Pl. 3.

262. Ost-Rumeliens Administrative Eintheilung. Nach authentischen Quellen von Hugo Kutschera. Scale, 1:1,600,000. Size, 24.9 × 19.3 cm. XXVI. 1880. Pl. 17.

263. Neue Grenze zwischen der Türkei und Griechenland nach dem Beschluss der Berliner Konferenz, Juni 1880, mit Angabe der Grenzen nach dem türkischen Vorschlag vom November 1879, nach dem griechischen Vorschlag vom December 1879 und nach dem französischen Vorschlag vom December 1879. Scale, 1:1,750,000. Size, 18.1 × 10.8 cm. Ergbd. XIV. No. 62. 1880. P. 128.

12. Greece.

264. Plan von Nea und Mikra Kammeni sammt Georg I. und Aphroessa, aufgenommen von Herrn Lienschiffs-Fähnrich A. Heinze. Scale, [ca. 1:63,000]. Size, 12 × 10.7 cm. [XII.] 1866. P. 144.

265. Santorin oder Thera. Scale, 1:500,000. Size, 4.5 × 5.4 cm. [XII.] 1866. Pl. 7.

266. Der Krater von Santorin. Nach der Englischen Aufnahme u. Mittheilungen von Dr. Jul. Schmidt von A. Petermann. Scale, 1:47,000. Size, 19.2 × 25.1 cm. [XII.] 1866. Pl. 8.

267. Die politischen Verhältnisse der Balkan-Halbinsel im 14. Jahrhundert. (Auszug aus Th. Menke's Karte: "Länder am Ägäischen & Schwarzen Meer 1311-1390" in Spruner-Menke Histor. Handatlas, 19. Lief. No 88.) Scale, 1:5,000,000. Size, 24.5 × 33.2 cm. XXIV. 1878. Pl. 8.

268. Reich des Stephan Duschau um 1346. Scale, 1:10,000,000. Size, 11.9 × 8 cm. XXIV. 1878. Pl. 8.

269. Die politischen Verhältnisse und neuen Staaten-Grenzen von Südost-Europa und Vorder-Asien nach dem Berliner Verträge 13. Juni-13. Juli 1878. Von A. Petermann. Scale, 1:7,500,000. Size, 43.6 × 24.7 cm. XXIV. 1878. Pl. 20.

270. Landfest gewordene Inseln im Delta des Aspropotamos. Scale, 1:600,000. Size, 6.2 × 7.1 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

271. Neue Grenze zwischen der Türkei und Griechenland nach dem Beschluss der Berliner Konferenz, Juni 1880, mit Angabe der Grenzen nach dem türkischen Vorschlag vom November 1879, nach dem griechischen Vorschlag vom December 1879 und nach dem französischen Vorschlag vom December 1879. Scale, 1:1,750,000. Size, 18.1 × 10.8 cm. Ergbd. XIV. No. 62. 1880. P. 128.

13. European Russia.

272. Physikalisch-geographische Skizze der Krim. Scale, 1:3,500,000. Size, 8.4 × 5.6 cm. [II.] 1856. P. 41.

273. Die Russisch-Türkische Grenze an den Donau-Mündung, nach den Bestimmungen des Friedens-Congresses von Paris 30. März 1856. Gez. von F. v. Stülpnagel. Scale, 1:1,250,000. Size, 19.5 × 24.6 cm. [II.] 1856. Pl. 9.

274. Die Russisch-Türkische Grenze an den Donau-Mündung. Nach den Bestimmungen vom 6. Januar 1857. Von A. Petermann. Scale, 1:1,250,000. Size, 12.6 × 13.9 cm. [III.] 1857. P. 129.

275. Übersicht der Russisch-Scandinavischen Grad-Messung zwischen der Donau und dem Nord-Kap. Gez. von B. Hassenstein. Scale, 1:11,600,000. Size, 6.5 × 24.6 cm. [III.] 1857. Pl. 14.

276. Karte vom Gouvernement Astrachan aufgenommen im Jahre 1852 vom Geometer Milewanoff. (Zeichnung von Besobrasoff, Beamten der K. Russ. Astrachan'schen Salz-Verwaltung.) Scale, 1:1,500,000. Size, 42.7 × 44.3 cm. [IV.] 1858. Pl. 5.

277. Karte vom Wolga-Delta und dem Distrikt der Bucor. Entworfen im Jahre 1856 von Andrei Nasaroff, Conduktor der K. Russ. Astrachan'schen Salz-Verwaltung. Scale, 1:530,000. Size, 25 × 17.1 cm. [IV.] 1858. Pl. 5.

278. Karte vom Europäischen Russland zur Übersicht der bis zum J. 1858 ausgeführten Topographischen Aufnahmen. Zusammengestellt unter Leitung des Directors des Kaiserl. Russ. Topographischen Kriegs-Depôts General-Major v. Blaramberg. Scale, 1:16,000,000. Size, 19.5 × 24.7 cm. [IV.] 1858. Pl. 8.

279. Karte vom Europäischen Russland zur Übersicht der bis zum J. 1858 ausgeführten Trigonomischen & Astronomischen Arbeiten. Zusammengestellt unter Leitung des Directors d. Kaiserl. Russ. Topographischen Kriegs-Depôts General-Major v. Blaramberg. Scale, 1:16,000,000. Size, 19.4 × 24.9 cm. [IV.] 1858. Pl. 9.

280. Skizze von Finnland zur Übersicht der Gradmessungs-Punkte &c. Scale, 1:11,600,000. Size, 6.7 × 10.5 cm. [V.] 1859. Pl. 5.

281. Höhenschichten-Karte von Finnland. Nach dem Kartenwerk von C. W. Gylde. Scale, 1:2,700,000. Size, 24.8 × 28.7 cm. [V.] 1859. Pl. 5.

282. Originalkarte der Kuma-Manitsch-Niederung, nach den Aufnahmen, die auf Anordnung des Staatsrathes Dr. Bergsträsser und durch Unterstützung des K. Russ. Finanzministers v. Knäschewitz Behufs einer Canalverbindung des Caspischen mit dem Schwarzen Meere in den Jahren 1858 und 1859, von Popiel, N. & J. Iwanow und Nasaroff ausgeführt worden sind. Nach den astron. und trigon. Positionen des K. Russ. Generalstabes niedergelegt von A. Petermann. Scale, 1:1,000,000. Size, 43.6 × 24.5 cm. [V.] 1859. Pl. 16.

283. Skizze der Bifurkation des Manitsch aufgenommen vom Berg-Condukteur Nasaroff. Scale, 1:400,000. Size, 7.8 × 4.4 cm. [V.] 1859. Pl. 16.

284. Originalkarte des Östlichen Manitsch, vom Kökö-Ussun bis zum Caspischen Meere, aufgenommen auf Anordnung des Staatsrath's Dr. Bergsträsser vom Gouvernements-Geometer Popiel, 10. Mai-25. Juni 1859. Scale, 1:400,000. Size, irregular. [V.] 1859. Pl. 16.

285. Übersichtskarte der Ponto-Caspischen Niederung. Scale, 1:4,000,000. Size, 16.9 × 8.2 cm. [V.] 1859. Pl. 16.

286. Das Kaspische Meer nach den neuesten Russischen Aufnahmen des Capitän N. Iwaschinoff

1858-1860. Von A. Petermann. Scale, 1:5,000,000. Size, 19.1 X 24.5 cm. [IX.] 1863. Pl. 3.

287. Das Berg- und Wiesen-Ufer der mittleren Wolga. Als erster Versuch einer Terrainzeichnung von Central-Russland. (Aus Petermann's 6 Blatt-Karte von Ost-Europa.) Scale, 1:3,700,000. Size, 19.3 X 24.7 cm. [XII.] 1866. Pl. 1.

288. Odessa und Umgegend. Scale, 1:500,000. Size, 5.5 X 4.4 cm. XV. 1869. Pl. 22.

289. Die Ausdehnung der Slaven in der Türkei und den angrenzenden Gebieten. Nach den neuesten Untersuchungen von A. Petermann. Scale, 1:3,700,000. Size, 40.9 X 33.9 cm.

XV. 1869. Pl. 22.
290. Originalkarte von Russisch Lappland von J. A. Friis, Professor an der Universität in Christiania. Auf Grund von J. A. Friis' Originalzeichnung und russischen Detailkarten zusammengestellt von A. Petermann. Scale, 1:2,200,000. Size, 24.9 X 30.4 cm. XVI. 1870. Pl. 18.

291. Die Rückreise der arktischen Expedition des Grafen Hans Wiltschek durch Nordost-Russland, von der Petschora-Mündung bis Nischnii Nowgorod, 3. Sept.-25. Okt. 1872. Von A. Petermann. Scale, 1:3,700,000. Size, 24.4 X 44 cm.

XX. 1874. Pl. 6.
292. Ethnographische Karte des Russischen Reiches, nebst Andeutung der hauptsächlichsten Völkergrenzen in den Nachbargebieten. Hauptsächlich nach Rittich und Venjukoff von A. Petermann. Scale, 1:20,000,000. Size, 41 X 33.8 cm. XXIII. 1877. Pl. 1.

293. Russland's Eisenbahnen & Wasserstraßen. Von A. Petermann. Scale, 1:10,000,000. Size, 40.8 X 33.8 cm. XXIII. 1877. Pl. 21.

294. St. Petersburg und Umgegend. Scale, 1:500,000. Size, 10.2 X 11.8 cm.

XXIII. 1877. Pl. 21.
295. Moskau und Umgegend. Scale, 1:500,000. Size, 7.9 X 9 cm. XXIII. 1877. Pl. 21.

296. Land der Gothen in der Krym. Scale, 1:2,500,000. Size, 7.1 X 4.1 cm.

XXIV. 1878. Pl. 8.
297. Vertheilung der Gross- Weiss- & Klein-Russien. Nach A. F. Rittich von A. Petermann. Scale, 1:3,700,000. Size, 51.7 X 43.1 cm.

Der festlichste Theil Russlands. Scale, 1:7,400,000. Size, 8.4 X 16.5 cm.

XXIV. 1878. Pl. 18.
298. Ethnographische Karte von Russland, nach A. F. Rittich von A. Petermann. Nördliches Blatt. Südliches Blatt. Scale, 1:3,700,000. Size, 65.6 X 48.7 cm. and 65.4 X 49.1 cm.

a. Odessa und Umgegend. Scale, 1:500,000. Size, 5.5 X 4.3 cm. Pl. 2.

b. Der Ararat und seine Umgegend. Scale, 1:500,000. Size, 10.8 X 7.1 cm. Pl. 2.

c. Tiflis und Umgegend. Scale, 1:500,000. Size, 8 X 4.8 cm. Pl. 2.

Ergbd. XII. No. 54. 1878. Pl. 1, 2.
299. Delta der Petschora. Scale, 1:3,700,000. Size, 3.8 X 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 2.
300. Delta der Wolga. Scale, 1:3,700,000. Size, 3.8 X 5.5 cm. Ergbd. XII. No. 56. 1878. Pl. 2.

301. Die Pest an der Wolga, 1878 und 1879. Scale, [ca. 1:18,000,000]. Size, 7.7 X 6.7 cm.

XXV. 1879. Pl. 14.
302. Temperatur-Verhältnisse des Russischen Reiches nach H. Wild. Isothermen des Januar. — Isothermen des April. — Isothermen des Juli. — Isothermen des October. — Isothermen des Jahres. — Isoamplituden. Scale, 1:60,000,000. Size, 31.6 X 24.6 cm. XXVII. 1881. Pl. 13.

14. Caucasia.

303. Die neue administrative Eintheilung Kaukasien's und Route der Ersteigung des Elbrus und Kasbek durch Freshfield, Moore und Tucker, Juni-Aug. 1868. Von A. Petermann. Scale, 1:3,700,000. Size, 30.7 X 25 cm. XV. 1869. Pl. 3.

304. Karte von Kaukasien zur Übersicht der physikalisch-geographischen Grundzüge und der wichtigsten Minerale. Von A. Petermann. Scale, 1:3,700,000. Size, 41.3 X 34 cm.

a. Der Ararat und seine Umgegend. Scale, 1:500,000. Size, 10.8 X 7.1 cm.

b. Tiflis und Umgegend. Scale, 1:500,000. Size, 8 X 4.8 cm.

Ergbd. VIII. No. 36. 1874. Pl. 1.

305. Verbreitung der Wälder in Kaukasien. Von A. Petermann. Scale, 1:7,500,000. Size, 19.2 X 12.4 cm. Ergbd. VIII. No. 36. 1874. Pl. 2.

306. Dichtigkeit der Bevölkerung in Kaukasien. Von A. Petermann. Scale, 1:7,500,000. Size, 19.2 X 12.4 cm. Ergbd. VIII. No. 36. 1874. Pl. 2.

307. Der Ararat und seine Umgegend. Scale, 1:500,000. Size, 10.8 X 7.1 cm.

Ergbd. XII. No. 54. 1878. Pl. 2.

308. Tiflis und Umgegend. Scale, 1:500,000. Size, 8 X 4.8 cm.

Ergbd. XII. No. 54. 1878. Pl. 2.

309. Ethnographische Karte von Kaukasien. Von N. v. Seidlitz. Scale, 1:3,700,000. Size, 31.2 X 24.4 cm. XXVI. 1880. Pl. 15.

III. ASIA.

1. General.

310. Übersichtskarte von dem Verbreitungsgebiet des Schwarzen Todes in den Jahren 1346 bis 1351 und den äussersten Grenzen der Pest-Epidemien zwischen 1351 und 1696. Von Dr. Carl Martin. Mean scale, 1:33,000,000. Size, 32.4 X 15.5 cm. XXV. 1879. Pl. 14.

311. Die äussersten Grenzen der Pest-Epidemien des achtzehnten Jahrhunderts. — Entworfen von Dr. Carl Martin. Mean scale, [1:33,000,000]. Size: 1701 bis 1721, 8.5 X 11.3 cm.; 1726 bis 1744, 10.6 X 11.3 cm.; 1747 bis 1805, 13.3 X 11.3 cm.

XXV. 1879. Pl. 14.

312. Die Pest-Epidemien des neunzehnten Jahrhunderts. Mean scale, [1:33,000,000]. Size: 1810 bis 1832, 13.5 X 7.4 cm.; 1833 bis 1874, 13.5 X 7 cm.

XXV. 1879. Pl. 14.

2. Central Asia.

(Comprising the Trans-Caspian Region and Turkestan.)

313. Karte vom Russisch-Chinesischen Grenzgebiet am Balkhasch-See und Issyk-Kul. Nach handschriftlichen Zeichnungen P. v. Semenow's, und andern authentischen russischen Dokumenten, von A. Petermann. Scale, 1:2,870,000. Size, 26.2 X 24.7 cm. [IV.] 1858. Pl. 16.

314. Schematische Skizze zur Übersicht der orographischen Grundzüge der Alpenländer des Alatau und Thian Schan. Scale, 1:3,400,000. Size, 12.4 X 19.8 cm. [IV.] 1858. Pl. 16.

315. Skizze zur Übersicht der geographischen Kenntniss der Länder um den Issyk-Kul im J. 1858. Scale, 1:5,000,000. Size, 8 X 9.7 cm.

[IV.] 1858. Pl. 16.

316. Inner-Asien nördliche des 35° N. Br. Copie der v. Schlaginweit'schen Karte. Scale, ca. 1: 6,000,000. Size, 30.1 × 15 cm.

[VII.] 1861. Pl. 10.

317. V. Schlaginweit's Routen in Indien und Hochasien 1854-1858. Scale, 1: 50,200,000. Size, 8.9 × 9.6 cm.

[VII.] 1861. Pl. 10.

318. Das Bolor-Gebirge und die Quellen des Amu-Daria. Original-Zeichnung von Mich. de Venukoff, K. Russ. Kapitain & Mitglied der K. Russ. Geog. Ges. Scale, ca. 1: 6,000,000. Size, 12.3 × 15 cm.

[VII.] 1861. Pl. 10.

319. Das Kaspische Meer nach den neuesten Russischen Aufnahmen des Capitän N. Iwaschinoff 1858-1860. Von A. Petermann. Scale, 1: 5,000,000. Size, 19.1 × 24.5 cm.

[IX.] 1863. Pl. 3.

320. Plan von Samarkand und Umgebung. Nach der Russischen Aufnahme von Jakowlew, 1841. Scale, 1: 7,500. Size, 24.5 × 18.8 cm.

[XI.] 1865. Pl. 8.

321. Die See'nbecken des Balchasch und Ala-Kul in Inner-Asien. Nach den neuesten russischen Aufnahmen und Forschungen von Babkow, Golubew u. A. Zusammengestellt von A. Petermann. Scale, 1: 2,500,000. Size, 30.3 × 23.7 cm.

[XIV.] 1868. Pl. 7.

322. Die Russisch-Turanisch-Chinesischen Grenzgebiete in Inner-Asien. Scale, 1: 10,000,000. Size, 24.7 × 19.4 cm.

[XIV.] 1868. Pl. 8.

323. Karte der neuesten Russischen Forschungen im Thian-Schan-System, besonders der Reise zwischen Issyk-Kul und Kaschgar von Ssewerzow & R. v. Osten-Sacken, 1867. Zusammengestellt von A. Petermann. Scale, 1: 1,500,000. Size, 19.1 × 24.8 cm.

a. Umgegend des Rigi & Pilatus im gleichen Maassstabe [zum Vergleich]. Size, 2.6 × 1.7 cm.

XV. 1869. Pl. 9.

324. G. W. Hayward's Reise von Leh nach Kaschgar, 1868-9. Nach der Karte im Journ. R. G. S. vol. XL. Nebst Übersicht der Höhenverhältnisse der Central-Asiatischen Gebirgs-Systeme von A. Petermann. Scale, 1: 2,500,000. Size, 24.5 × 31.4 cm.

XVII. 1871. Pl. 14.

325. Specialkarte von Chiwa und den umliegenden Gebieten zur Orientierung des Russischen Kriegszuges in 1873. Von A. Petermann. Scale, 1: 4,000,000. • Size, 24.5 × 16.1 cm.

XIX. 1873. Pl. 9.

326. Übersichtskarte von West-Turkestan von F. v. Stülpnagel & Herm. Berghaus. Scale, 1: 10,000,000. Size, 24.5 × 15.8 cm.

XIX. 1873. Pl. 9.

327. Karte eines Theiles der Transkaspischen Länder, zusammengestellt nach den neuesten Aufnahmen in der Kriegstopographischen Abtheilung des Kaukasischen Kriegsdepartements in Tiflis. Scale, 1: 1,200,000. Size, 29 × 45.3 cm.

XIX. 1873. Pl. 15.

328. Skizze der Marschroute der russ. Colonne unter Oberst Lamakine von Kinderli Bai gegen Chiwa, Mai 1873. Gez. von Lieut. Stumm, Ilte Idsche, 13. Mai 1873. Scale, 1: 1,200,000. Size, 29.2 × 13.4 cm.

XIX. 1873. Pl. 15.

329. Plan von Chiwa nach Russischen Quellen von A. Petermann. Scale, 1: 24,500. Size, 19.1 × 14.2 cm.

XIX. 1873. Pl. 18.

330. Originalkarte von A. Fedtschenko's Reise nach dem Pamir Plateau im Jahre 1871. Von A. Petermann. Scale, 1: 2,000,000. Size, 42.4 × 24.8 cm.

XX. 1874. Pl. 11.

331. Originalkarte des centralen Theiles des Thianschan-Gebirgssystems zur Übersicht von N. A. Sewerzoff's Reisen 1864-8. Nach den Messtisch-Aufnahmen der Westsibirischen Militärtopographen

1856-8 und den neuesten Recognoscirungen & Messungen. Von A. Petermann. Scale, 1: 1,100,000. Size, 63.3 × 50.4 cm.

Ergbd. IX. No. 42. 1875.

332. Das Pamir Plateau und die angrenzenden Theile des Himälaya, Thian-Schan, Hindu-Kusch &c. Übersicht von D. Forsyth's Expedition nach Kaschgar, 1874 und aller übrigen Reisen in demselben Gebiete von A. Petermann. Scale, 1: 2,200,000. Size, 49.1 × 36 cm.

Ergbd. XI. No. 52. 1877.

333. Afghanistan, Belutchistan und angrenzende Gebiete. Scale, 1: 7,500,000. Size, 19.4 × 24.9 cm.

XXIV. 1878. Pl. 25.

334. Das Quellgebiet des Oxus. Scale, 1: 2,000,000. Size, 42.6 × 24.7 cm.

XXV. 1879. Pl. 1.

335. N. A. Sewerzow's Erforschung der östlichen Pamir, Aug.-Sept. 1878. Reduction der Routen-Aufnahme von Topograph A. Skassi. Scale, 1: 1,000,000. Size, 19.3 × 24.8 cm.

XXVI. 1880. Pl. 19.

336. Dr. Albert Regel's Reise nach Turfan Mai bis Nov. 1879. Nach den Tagebüchern entworfen & gezeichnet von B. Hassenstein. Scale, 1: 1,500,000. Size, 52.6 × 24.5 cm.

XXVII. 1881. Pl. 18.

3. Asia Minor.

337. [Nebenkarte zur Übersicht der Ausdehnung der K. K. Russischen Topographischen Aufnahmen in Vorder-Asien bis zum Jahre 1858.] Scale, [ca. 1: 23,000,000]. Size, 12 × 7.2 cm.

[IV.] 1858. Pl. 8.

338. P. von Tschihatscheff's Reiserouten und Übersicht seiner Höhenbestimmungen in Kleinasien 1848-1858. Von A. Petermann. Scale, 1: 5,500,000. Size, 24.9 × 19.1 cm.

[VI.] 1860. Pl. 14.

339. Physikalische Skizze von Kleinasien zur Übersicht der Oberflächen-Gestaltung. Scale, 1: 12,000,000. Size, 12.1 × 6.5 cm.

[VI.] 1860. Pl. 14.

340. [Entwurf eines Hauses im Dorfe Kalakoei, Klein-Asien.] Scale, [ca. 1: 4,800]. Size, 2.4 × 2.4 cm.

Ergbd. [I.] [No. 3.] 1860. P. 27.

341. [Entwurf des Palastes in Boghäs-koei, Klein-Asien.] Scale, [ca. 1: 11,100]. Size, 8.6 × 13.3 cm.

Ergbd. [I.] [No. 3.] 1860. P. 48.

342. Originalkarte zu Dr. H. Barth's Reise durch Kleinasien von Trapezunt nach Tschikoryk, 31. Oktober-20. November 1858. Von A. Petermann. (Ostl. Blatt.) Scale, 1: 1,000,000. Size, 42.5 × 24.8 cm.

a. Plan von Kara-Hissár. Scale, 1: 100,000. Size, 13.3 × 11.2 cm.

b. Plan von Amassia. Scale, 1: 100,000. Size, 7 × 7.5 cm.

c. Plan von Tokát. Scale, 1: 100,000. Size, 6.3 × 7.7 cm.

Ergbd. [I.] [No. 3.] 1860.

343. Originalkarte zu Dr. H. Barth's Reise durch Kleinasien von Tschikoryk nach Ssöghüd, 21. Nov.-18. December 1858. Von A. Petermann. (Westl. Blatt.) Scale, 1: 1,000,000. Size, 42.6 × 24.8 cm.

a. Plan von Kyr-Schöhr. Scale, 1: 100,000. Size, 6.4 × 7.3 cm.

b. Skizze von Kleinasien zur Übersicht der von Dr. Barth in den Jahren 1847 und 1858 zurückgelegten Reisen. Scale, [ca. 1: 8,000,000]. Size, 14.6 × 10.3 cm.

Ergbd. [I.] [No. 3.] 1860.

344. Originalkarte vom Thal des Euphrat und einem Theile des alten Babylonien bei mittlerem Wasserstande. Nach einer trigonometrischen Aufnahme von Oberst-Lieutenant Julius. Scale, 1: 585,000. Size, 19.3 × 24.7 cm.

[VIII.] 1862. Pl. 16.

345. Original-Karte zu Dr. O. Blau's Reise vom Urumia-See nach dem Van-See 1857. Scale, 1: 1,400,000. Size, 19.1 × 24.5 cm.

[IX.] 1863. Pl. 7.
346. Kartenskizze des Zab-Ala Gebietes in Kurdistan. Von W. Strecker. Scale, 1: 1,700,000. Size, 19 × 24.5 cm.
[IX.] 1863. Pl. 9.

347. Carte de L'Asie Mineure contenant les Itinéraires de P. de Tchihatchef en 1847, 1848, 1849, 1850, 1853, 1858 & 1863, tracé par H. Kiepert. Scale, 1: 2,000,000. Size, 65.3 × 36.8 cm.

Ergbd. IV. No. 20. 1867.
348. Situationsplan des Naphtha-Berges bei Mendeli in Irak-Arabi. Von Berg-Ingenieur Meissner. Scale, (wanting). Size, 4.5 × 6.1 cm.

XX. 1874. P. 345.
349. Schichtenkarte von Klein-Asien. Von A. Petermann. Scale, 1: 3,700,000. Size, 40.6 × 24.2 cm.

XXI. 1875. Pl. 13.
350. Übersicht von Černik's Expedition [durch die Gebiete des Euphrat und Tigris], 1872-3. Von A. Petermann. Scale, 1: 7,500,000. Size, 19.4 × 25 cm.
Ergbd. X. No. 44. 1875. Pl. 1.

351. Übersicht der Telegraphen-Linien und projektirten Eisenbahnen [in den Gebieten des Euphrat und Tigris]. Scale, [ca. 1: 11,000,000]. Size, ca. 8.4 × 6.5 cm.
Ergbd. X. No. 44. 1875. Pl. 1.

352. Originalkarte der Euphrat- und Tigris-Gebiete von Alexandretta, der Orontes-Mündung und Taräbulus am Mittelmeer im Südwesten bis Diarbekr & Bagdad im Norden und Osten. Nach den Aufnahmen von Ingenieur Josef Černik's Expedition. Reduzirt nach den meist im Maassstabe von 1: 20,000 ausgeführten Original-Aufnahmen. Redigirt von A. Petermann. Scale, 1: 1,100,000. Size, 42.3 × 24.7 cm.
Ergbd. X. No. 44. 1875. Pl. 2, 3.

353. Bagdad und Umgebung. Scale, 1: 60,000. Size, 14 × 9.4 cm. Ergbd. X. No. 44. 1875. Pl. 3.
354. Kerkuk und Umgebung. Scale, 1: 60,000. Size, 8.3 × 9.4 cm.

Ergbd. X. No. 44. 1875. Pl. 3.
355. Originalkarte der Euphrat- und Tigris-Gebiete von Alexandretta, der Orontes-Mündung und Taräbulus am Mittelmeer im Südwesten bis Diarbekr und Bagdad im Norden und Osten. Nach den Aufnahmen von Ingenieur Josef Černik's Expedition. Reduzirt nach den meist im Maassstabe von 1: 20,000 ausgeführten Original-Aufnahmen. Redigirt von A. Petermann. (Nördliche Hälfte.) Scale, 1: 1,000,000 [1: 1,100,000?]. Size, 42.5 × 24.8 cm.
Ergbd. X. No. 45. 1876. Pl. 1, 2.

356. Alexandretta und Umgebung. Scale, 1: 60,000. Size, 7.7 × 8.7 cm.

Ergbd. X. No. 45. 1876. Pl. 1.
357. Aintab. Scale, 1: 60,000. Size, 6.7 × 7.1 cm.
Ergbd. X. No. 45. 1876. Pl. 1.

358. Mosul und Umgebung. Scale, 1: 60,000. Size, 14.1 × 10.5 cm.

Ergbd. X. No. 45. 1876. Pl. 2.
359. Gaugamela, Arbela und Umgegend. Scale, 1: 400,000. Size, 23.6 × 8.6 cm.

Ergbd. X. No. 45. 1876. Pl. 2.
360. Geologische Übersichtskarte der Černik'schen Expedition [durch die Gebiete des Euphrat und Tigris]. Red. von A. Petermann. Scale, 1: 5,000,000. Size, 19.2 × 12.4 cm.

Ergbd. X. No. 45. 1876. Pl. 3.
361. Ethnographische Übersichtskarte der Černik'schen Expedition. Red. von A. Petermann. Scale, 1: 5,000,000. Size, 19.2 × 12.4 cm.

Ergbd. X. No. 45. 1876. Pl. 3.
362. Originalkarte von Persien und den Nachbarländern zur Übersicht der Höhenverhältnisse und

der Resultate der Englischen Grenz-Commission 1870-2 unter Goldsmid, St. John, Lovett, Smith. Von A. Petermann. Scale, 1: 7,500,000. Size, 30.6 × 24.7 cm.
XXIII. 1877. Pl. 4.

363. Originalkarte von Sawrieff's Aufnahme durch Bin-göl-dagh 1874. Reduktion von A. Petermann. Scale, 1: 100,000. Size, 31 × 24.6 cm.

XXIII. 1877. Pl. 20.
364. Specialkarte von Armenien zur Übersicht des nach dem Frieden von S. Stefano, 3. März 1878 zu Russland gekommenen Gebietes. Nach der officiellen Russischen, dem Friedensvertrage beigegebenen Karte von Stebnitzky von A. Petermann. Scale, 1: 1,200,000. Size, 31 × 24.4 cm.

XXIV. 1878. Pl. 16.
365. Die politischen Verhältnisse und neuen Staaten-Grenzen von Südost-Europa und Vorder-Asien nach dem Berliner Verträge 13. Juni-13. Juli 1878. Von A. Petermann. Scale, 1: 7,500,000. Size, 43.6 × 24.7 cm.
XXIV. 1878. Pl. 20.

366. Beginnende Abschnürung des Golfes von Smyrna durch das Delta des Gediz Tschai. Scale, 1: 300,000. Size, 8.3 × 4.1 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.
367. Delta des Seihun und Dschihan. Scale, 1: 600,000. Size, 13.7 × 10.4 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.
368. Delta des Kysyl Irmak und Jeschil Irmak. Scale, 1: 3,700,000. Size, 3.8 × 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 2.
369. Die Pest-Epidemien in Vorder-Asien. Scale, [ca. 1: 20,000,000]. Size, 5.9 × 6.7 cm.

XXV. 1879. Pl. 14.

4. Palestine and the Sinai Peninsula.

370. Kartenskizze des Isthmus von Sues, zur Veranschaulichung des projektirten Kanals; nebst Übersicht der hypsometrisch gemessenen Punkte in Palästina. Von A. Petermann. Scale, 1: 2,700,000. Size, 24.5 × 18.8 cm.
[I.] 1855. Pl. 23.

371. Plan der Königsgräber in Jerusalem. Scale, [1: 128]. Size, 8.6 × 10.3 cm.

[III.] 1857. P. 25.
372. Plan der St. Anna-Kirche in Jerusalem. Scale, [ca. 1: 230]. Size, 7.7 × 4.9 cm.

[III.] 1857. P. 26.
373. Original-Skizze der Moses-Quellen (Äin Musa) im Peträischen Arabien. Aufgenommen von Th. v. Heuglin, 27. Mai 1861. Scale, 1: 10,000. Size, 19 × 8.4 cm.
[VII.] 1861. Pl. 14.

374. Van de Velde's Karte des Heiligen Landes. Probeblatt für die Besitzer der Geogr. Mitth. (2 Aufl., Sektion 3). Scale, 1: 315,000. Size, 42.5 × 33.5 cm.
[XI.] 1865. Pl. 7.

375. Originalkarte des Theiles von Palästina zwischen Jaffa und Jerusalem. Mit besonderer Berücksichtigung der vorhandenen und projektirten Communicationen. Nach Original-Zeichnungen und Benutzung der neuesten Aufnahmen und Forschungen von Conrad Schick, Institutsvorsteher. Scale, 1: 120,000. Size, 53.2 × 24.7 cm.

[XIII.] 1867. Pl. 5.

5. Persia.

376. Skizze zur Übersicht der von Lemm bestimmten Positionen in Persien. Von A. Petermann. Scale, 1: 7,500,000. Size, 17.8 × 9.2 cm.

[II.] 1856. P. 137.
377. Dr. Th. Kotschy's Ansichten des Vulkans Demavend, nebst Grundriss des Kraters und seiner

Umgebung. Scale, (*wanting*). Size, 19.1 × 11 cm.

[V.] 1859. Pl. 4.

378. Original-Karte zu Dr. O. Blau's Reise vom Urumia-See nach dem Van-See 1857. Scale, 1: 1,400,000. Size, 19.1 × 24.5 cm.

[IX.] 1863. Pl. 7.

379. Kartenskizze des Zab-Ala Gebietes in Kurdistan. Von W. Streckert. Scale, 1: 1,700,000. Size, 19 × 24.5 cm.

[IX.] 1863. Pl. 9.

380. Central-Persien und die Grenzgebiete von Afghanistan & Balutschistan zur Übersicht der Aufnahmen von Lovett, Goldsmid & St. John 1872. Nach der Karte von Colonel J. T. Walker Chef der Indischen Aufnahmen, von A. Petermann. Scale, 1: 1,350,000. Size, 31.2 × 24.2 cm.

XX. 1874. Pl. 3.

381. Originalkarte von Persien und den Nachbarländern zur Übersicht der Höhenverhältnisse und der Resultate der Englischen Grenz-Commission 1870-2 unter Goldsmid, St. John, Lovett, Smith. Von A. Petermann. Scale, 1: 7,500,000. Size, 30.6 × 24.7 cm.

XXIII. 1877. Pl. 4.

382. Die Pest-Epidemien in Vorder-Asien. Scale, [ca. 1: 20,000,000]. Size, 5.9 × 6.7 cm.

XXV. 1879. Pl. 14.

6. Arabia.

383. Die Insel Perim und die Eingänge in das Rothe Meer. Scale, 1: 700,000. Size, 9 × 8.3 cm.

[IV.] 1858. P. 163.

384. Die Insel Majún oder Perim. Scale, 1: 150,000. Size, 6.8 × 4.2 cm.

[VI.] 1860. Pl. 15.

385. Original-Skizze der Moses-Quellen (Ain Musa) im Peträischen Arabien. Aufgenommen von Th. v. Heuglin, 27. Mai 1861. Scale, 1: 10,000. Size, 19 × 8.4 cm.

[VII.] 1861. Pl. 14.

386. Karte der Bai von Sues. Nach der Engl. Aufnahme v. Comm. Mansell, 1856. Scale, 1: 140,000. Size, 19 × 16.3 cm.

[VII.] 1861. Pl. 15.

387. Originalkarte zur Übersicht der Forschungen H. v. Maltzan's in Süd-Arabien, 1870-71, sowie der Reisen von A. v. Wrede (1843), Munzinger & Miles (1870) u. A. Von A. Petermann. Scale, 1: 1,500,000. Size, 43.2 × 24.5 cm.

XVIII. 1872. Pl. 9.

388. Meerbusen von Aden. Scale, 1: 5,000,000. Size, 7 × 4.4 cm.

XX. 1874. Pl. 14.

389. W. S. & A. Blunt's Reisen in Nord-Arabien. Mit Benutzung der Forschungen von Saïd Pascha, Burton, Doughty u. A., gezeichnet von B. Hassenstein. Scale, 1: 5,500,000. Size, 19.5 × 24.6 cm.

XXVII. 1881. Pl. 11.

7. Afghanistan and Baluchistan.

390. Central-Persien und die Grenzgebiete von Afghanistan & Balutschistan zur Übersicht der Aufnahmen von Lovett, Goldsmid & St. John 1872. Nach der Karte von Colonel J. T. Walker, Chef der Indischen Aufnahmen, von A. Petermann. Scale, 1: 1,350,000. Size, 31.2 × 24.2 cm.

XX. 1874. Pl. 3.

391. Originalkarte von Persien und den Nachbarländern zur Übersicht der Höhenverhältnisse und der Resultate der Englischen Grenz-Commission 1870-2 unter Goldsmid, St. John, Lovett, Smith. Von A. Petermann. Scale, 1: 7,500,000. Size, 30.6 × 24.7 cm.

XXIII. 1877. Pl. 4.

392. Afghanistan, Belutschistan und angrenzende Gebiete. Scale, 1: 7,500,000. Size, 19.4 × 24.9 cm.

XXIV. 1878. Pl. 25.

393. Der Cheiber Pass [Afghanistan]. Scale, 1: 1,000,000. Size, 8.7 × 7.7 cm.

XXIV. 1878. Pl. 25.

8. Asiatic Russia.

394. Skizze von untern Amür-Lande nebst Umgebungen. Von A. Petermann. Scale, 1: 4,500,000. Size, 19 × 24.5 cm.

[II.] 1856. Pl. 10.

395. Skizze von West-Sibirien. Dichtigkeit der Bevölkerung im Jahre 1851. Gez. von A. Petermann. Scale, 1: 15,000,000. Size, 12.2 × 19 cm.

[II.] 1856. Pl. 12.

396. Skizze von West-Sibirien in kultur-historischer Beziehung. Von A. Petermann. Scale, 1: 15,000,000. Size, 12.2 × 19 cm.

[II.] 1856. Pl. 13.

397. Karte vom untern Laufe des Sir Daria nach den neuesten Aufnahmen des Captain Lieutenants Iwaschtschinzoff 1854. Scale, 1: 1,470,000. Size, 24.3 × 19 cm.

[II.] 1856. Pl. 15.

398. Die Kirgisen Steppen. Scale, 1: 25,000,000. Size, 10.9 × 6.8 cm.

[II.] 1856. Pl. 15.

399. Skizze des Amür-Stroms nach Peschtschuroff's astronomischen Messungen im J. 1855, und die russisch-chinesische Grenze vom J. 1659-1856. Gez. von A. Petermann. Scale, 1: 6,600,000. Size, 24.6 × 19.1 cm.

[II.] 1856. Pl. 36.

400. Der Uluss (Chanat) Shigansk. Nach Chitrov. Gez. von A. Petermann. Scale, 1: 7,500,000. Size, 12.4 × 13.3 cm.

[III.] 1857. Pl. 5.

401. Karte eines Theils von Trans-Baikalien. Nach den neuesten Russischen Quellen gez. von A. Petermann. Scale, 1: 2,450,000. Size, 19.3 × 24.6 cm.

[III.] 1857. Pl. 6.

402. Physikalische Karte des Amur-Stromes, nach den neuesten Russischen Berichten gez. von A. Petermann. Scale, 1: 6,000,000. Size, 24.6 × 12.4 cm.

[III.] 1857. Pl. 13.

403. Karte vom Russisch-Chinesischen Grenzgebiet am Balkhasch-See und Issyk-Kul. Nach handschriftlichen Zeichnungen P. v. Semenow's, und andern authentischen russischen Dokumenten, von A. Petermann. Scale, 1: 2,870,000. Size, 26.2 × 24.7 cm.

[IV.] 1858. Pl. 16.

404. Schematische Skizze zur Übersicht der orographischen Grundzüge der Alpenländer des Altau und Thian Schan. Scale, 1: 3,400,000. Size, 12.4 × 14.8 cm.

[IV.] 1858. Pl. 16.

405. Skizze zur Übersicht der geographischen Kenntniss der Länder um den Issyk-Kul im J. 1858. Scale, 1: 5,000,000. Size, 8 × 9.7 cm.

[IV.] 1858. Pl. 16.

406. Karte des Kossogol-Beckens und eines Theiles von Trans-Baikalien. Nach Permikin's Forschungen und anderen authentischen russischen Quellen. Von A. Petermann. Scale, 1: 1,800,000. Size, 19 × 24.6 cm.

[VI.] 1860. Pl. 5.

407. Karte der südlichen Grenzgebiete von Ost-Sibirien. Auf Grund der neuesten Quellen und besonders der grossen (zur Zeit unpublicirten) Karte von Herrn Schwarz, Chef der mathematischen Abtheilung der Sibirischen Expedition 1855-1859 gezeichnet von Gustav Radde. Scale, 1: 7,500,000. Size, 42.7 × 24.6 cm.

[VII.] 1861. Pl. 16.

408. Central-Sibirien nach der auf die Ergebnisse der Sibirischen Expedition 1855-1859 gestützten Karte von L. Schwarz reducirt von A. Petermann. Scale, 1: 6,000,000. Size, 19.1 × 24.6 cm.

[X.] 1864. Pl. 14.

409. Das Russisch-Chinesische Grenzgebiet im Ili Thal nach einer Original-Zeichnung von Dr. W. Radloff. Scale, 1: 1,200,000. Size, 19.1 × 15.1 cm.

[XII.] 1866. Pl. 5.

410. Die See'n Becken des Balchasch und Ala-Kul in Inner-Asien. Nach den neuesten russischen Aufnahmen und Forschungen von Babkow, Golubew u. A. Zusammengestellt von A. Petermann. Scale, 1: 2,500,000. Size, 30.3 × 23.7 cm.

[XIV.] 1868. Pl. 7.

411. Specialkarte von Nord-Sibirien zwischen Jenissei & Lena nach allen bisherigen Aufnahmen & Expeditionen. Von A. Petermann. Mean scale, 1: 3,000,000. Size, 49 × 36.2 cm.

XIX. 1873. Pl. 1.

412. Neuer Seeweg von Europa nach Sibirien. Nordenskiöld's Expedition von Tromsö zum Jenissei, Juni-Sept. 1875. Von A. Petermann. Scale, 1: 20,000,000. Size, 31.4 × 24.7 cm.

XXI. 1875. Pl. 24.

413. Nördliche Fortsetzung der Originalkarte des centralen Theiles des Thianschan-Gebirgssystems, umfassend die Seenzone des Balkasch-Alakul & das Siebenstromland. Von A. Petermann. Scale, 1: 1,100,000. Size, 64.6 × 25.2 cm.

Ergbd. X. No. 43. 1875.

414. Das Mündungs-Gebiet des Ob und Jenissei. Mit Benutzung von Nordenskiöld's Messungen von A. Petermann. Nordenskiöld's neueste Reise zum Jenissei Juli-Sept. 1876. Reise von Finsch, Brehm, Zeil am untern Ob, Juli & Aug. 1876. Scale, 1: 5,000,000. Size, 31 × 24.7 cm. XXII. 1876. Pl. 14.

415. Ethnographische Karte des Russischen Reiches, nebst Andeutung der hauptsächlichsten Völkergrenzen in den Nachbargebieten. Hauptsächlich nach Rittich und Venjukoff von A. Petermann. Scale, 1: 20,000,000. Size, 41 × 33.8 cm.

XXIII. 1877. Pl. 1.

416. Das nördliche Central-Sibirien zwischen Jenissei und Lena, umfassend das Quellgebiet der Tunguska, Wilui, Olenek nach den astronomischen & topographischen Aufnahmen und Erkundigungen von A. Tschekanowski 1876. Scale, 1: 4,800,000. Size, 27.4 × 24.4 cm. XXIII. 1877. Pl. 6.

417. Originalkarte des Isthmus zwischen dem Karischen Meere und dem Ob. Zur Übersicht der Reise von Finsch, Brehm & Zeil, Juli & Aug. 1876. Nach russischen Quellen und den Beobachtungen von Dr. Finsch von A. Petermann. Scale, 1: 1,000,000. Size, 19.2 × 24.8 cm. XXIII. 1877. Pl. 12.

418. Das Pamir Plateau und die angrenzenden Theile des Himalaya, Thian-Schan, Hindu-Kusch &c. Übersicht von D. Forsyth's Expedition nach Kaschgar, 1874 und aller übrigen Reisen in demselben Gebiete von A. Petermann. Scale, 1: 2,200,000. Size, 49.1 × 36 cm.

Ergbd. XI. No. 52. 1877.

419. Lena-Delta. Scale, 1: 3,000,000. Size, 8 × 7.1 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

420. Die Plover-Bai. Scale, 1: 450,000. Size, 7 × 9 cm. XXV. 1879. P. 139.

421. Prof. Nordenskiöld's Fahrt um die Nordspitze Asien's im Dampfer "Vega" 7. bis 27. Aug. 1878. Nach Kapitän Palander's Originalkarte eingezeichnet in A. Petermann's Karte von Nord-Sibirien, Geograph. Mitth. 1873, Tafel 1. Mean scale, 1: 3,000,000. Size, 49.3 × 36.4 cm. XXV. 1879. Pl. 2.

422. Die Hauptresultate von A. Tschekanowski's Forschungen in Nord-Sibirien im Gebiete der Flüsse Olenek, Lena und Jana 1874 & 1875. Scale, 1: 6,000,000. Size, 19.3 × 24.8 cm.

XXV. 1879. Pl. 6.

423. Die Fahrt des russischen Klippers "Wesadnik," Lieutenant Onatzewitsch, Aug. 1876, und Übersicht der bisherigen arktischen Forschungen nordwestlich der Bering Strasse. Mean scale, 1: 3,400,000. Size, 19.3 × 24.8 cm.

XXV. 1879. Pl. 8.

424. Specialkarte von Nord-Sibirien zwischen Lena und Bering-Strasse in 2 Blatt. Bearbeitet und gezeichnet von B. Hassenstein. Mean scale, 1: 3,000,000. Size: Westliches Blatt, 35.2 × 35.7 cm.; Ostliches Blatt, 35.3 × 35.6 cm.

XXV. 1879. Pl. 9, 10.

425. Capt. C. Dahl's Aufnahme des untern Ob-Stromes im August 1877. Scale, 1: 1,450,000. Size, 24.5 × 7.9 cm. XXV. 1879. Pl. 15.

426. Specialkarte von Nord-Sibirien zwischen Lena und Bering-Strasse mit Prof. Nordenskiöld's Kurs im Dampfer "Vega." Bearbeitet und gezeichnet von B. Hassenstein. Mean scale, 1: 3,000,000. Size, 70.4 × 35.7 cm. XXV. 1879. Pl. 17.

427. Karte von Dr. A. Regel's Reisen in Central-Asien 1876-1879, sowie der Routen von Kuropatkin, 1876-1877, und Przewalsky, 1877. Scale, 1: 3,000,000. Size, 52.8 × 31.6 cm. XXV. 1879. Pl. 20.

428. [Skizze der Flüsse und Flüssen zu beiden Seiten des Djuk-Djur-Gebirges in Ostsibirien.] Scale, [ca. 1: 3,000,000]. Size, 8.6 × 5.9 cm.

XXVI. 1880. P. 193.

429. Skizze der Pokatka- und Bajucha-Quellen. Scale, [ca. 1: 3,000,000]. Size, 8.5 × 9.2 cm. XXVI. 1880. P. 202.

430. Skizze der Quellseen des Woikar und der Kokpega auf dem Ural-Gebirge. Scale, [ca. 1: 3,800,000]. Size, 8.5 × 9.8 cm. XXVI. 1880. P. 294.

431. Temperatur-Verhältnisse des Russischen Reiches nach H. Wild. Isothermen des Januar — Isothermen des April. — Isothermen des Juli. — Isothermen des October. — Isothermen des Jahres. — Isoamplituden. Scale, 1: 60,000,000. Size (total), 31.6 × 24.6 cm. XXVII. 1881. Pl. 13.

432. Plan-Skizze von Turfan [Ost-Turkestan]. Scale, ca., 1: 75,000. Size, 7.6 × 4.8 cm. XXVII. 1881. Pl. 18.

433. Die Ruinen von Alt-Turfan [Ost-Turkestan]. Scale, ca., 1: 75,000. Size, 6.3 × 4.8 cm. XXVII. 1881. Pl. 18.

9. India and the Himalayan Region.

434. Geologische Karte von Vorder-Indien nach G. B. Greenough, Esq., F.R.S., F.G.S. &c. Scale, [1: 14,000,000]. Size, 20.7 × 24.3 cm.

[I.] 1855. Pl. 3.

435. Skizze vom Pandschab oder dem Fünf-Strom-Lande, gezeichnet von Hermann Berghaus. Scale, 1: 3,000,000. Size, 20 × 24.6 cm.

[I.] 1855. Pl. 4.

436. Skizze des Distrikts von Kohat, nach einer handschriftlichen Zeichnung von J. Sykes, Lieutenant in der Pandschab-Armee. Scale, 1: 550,000. Size, 18.8 × 24.4 cm. [I.] 1855. Pl. 9.

437. Das Thal von Katmandu. Nach der Aufnahme des Graf von Oriolla im Febr. 1845 u. Lithographie von Heinr. Mahlmann in dem Werke: "Zur Erinnerung an die Reise des Prinzen Waldemar von Preussen nach Indien in den Jahren 1844-1846." Von E. von Sydow. Scale, 1: 500,000. Size, 17.4 × 19.5 cm. [I.] 1855. Pl. 22.

438. Skizze zur Übersicht der Reiserouten der Gebrüder Schlaginweit in Indien, vom 5. Nov. 1854 bis 26 Februar 1856. Von A. Petermann. Scale, 1: 32,000,000. Size, 8.7 × 11 cm.

[II.] 1856. P. 104.

439. Skizze eines Theiles des Himalaya, zur Orientirung seiner höchsten Gipfel. Von A. Petermann. Scale, 1: 5,000,000. Size, 13.2 × 11 cm.

[II.] 1856. P. 379.

440. Die Geographisch-Statistischen Hauptmomente Indiens. Kartographisch dargestellt von A. Petermann.

- No. 1. General-Karte. Scale, 1: 9,750,000. Size, 40.5 X 31.4 cm.
 No. 2. Sprachen u. Völker Indiens. Scale, 1: 43,000,000. Size, 8.1 X 7.8 cm.
 No. 3. Dichtigkeit der Bevölkerung Indiens. Scale, 1: 43,000,000. Size, 8 X 7.8 cm.
 No. 4. Militär-Stationen Indiens. Scale, 1: 43,000,000. Size, 8.1 X 7.8 cm.
 No. 5. Religionen u. Missionen Indiens. Scale, 1: 43,000,000. Size, 8.1 X 7.8 cm.
 No. 6. Karte zur Übersicht der Militär-Stationen in den Nord-West-Provinzen und des Heerdes der Revolution seit Mai 1857. Scale, 1: 6,500,000. Size, 14.6 X 12.1 cm.
 No. 7. Plan von Delhi. Scale, 1: 30,000. Size, 8.6 X 13.9 cm.

[III.] 1857. Pl. 15.

441. Skizze der höchsten Himalaya-Gipfel von Nipal und Sikkim. Scale, 1: 2,000,000. Size, 18 X 12.6 cm.

[IV.] 1858. P. 491.

442. Kulturkarte von Indien, eine Skizze der Haupt-Verkehrsmittel und der Verbreitung der wichtigsten Kulturpflanzen &c. Nach officiellen u. authentischen Quellen von A. Petermann. Scale, 1: 15,450,000. Size, 24.5 X 19 cm. [V.] 1859. Pl. 1.

443. Kaschmir und der Zweithöchste Berg der Erde. Nach den neuesten engl. Messungen von A. Petermann. Scale, 1: 4,000,000. Size, 10.7 X 10.5 cm. [VII.] 1861. Pl. 1, P. 1.

444. Karte von Sikkim u. Ost Nipal nach den Forschungen Dr. J. D. Hooker's gezeichnet von A. Petermann. Scale, 1: 680,000. Size, 19.2 X 24.4 cm. [VII.] 1861. Pl. 2.

445. Skizze zur Orientirung des Sikkim-Himalaya. Scale, 1: 5,000,000. Size, 5.2 X 6.7 cm. [VII.] 1861. Pl. 2.

446. v. Schlaginweit's Routen in Indien und Hochasien 1854-1858. Scale, 1: 50,000,000. Size, 8.9 X 9.6 cm. [VII.] 1861. Pl. 10.

447. Isogonische Linien (Declination) in Indien und Hochasien nach v. Schlaginweit. Scale, 1: 50,000,000. Size, 8.2 X 9.6 cm. [VII.] 1861. Pl. 10.

448. Isoclinische Linien (Inclination) in Indien und Hochasien nach v. Schlaginweit. Scale, 1: 50,000,000. Size, 8.2 X 9.6 cm. [VII.] 1861. Pl. 10.

449. Isodynamische Linien (Intensität) in Indien und Hochasien nach v. Schlaginweit. Scale, 1: 50,000,000. Size, 8.2 X 9.6 cm. [VII.] 1861. Pl. 10.

450. Isodynamische Linien (Horizontale Intensität) in Indien und Hochasien nach v. Schlaginweit. Scale, 1: 50,000,000. Size, 8.9 X 9.6 cm. [VII.] 1861. Pl. 10.

451. Übersicht des Obercommissariats der Central-Provinzen von H. Berghaus. (Aus "Stieler's Hand-Atlas.") Scale, 1: 10,000,000. Size, 19.1 X 8.7 cm. [X.] 1864. Pl. 9.

452. Der Staat Bustar und umliegende Gebiete der Central-Provinzen Indiens nach officiellen Karten von A. Petermann. Scale, 1: 2,500,000. Size, 19.1 X 15.7 cm. [X.] 1864. Pl. 9.

453. Forschungen und Aufnahmen zweier Punditen (Indischer Eingebornen) in Tibet, am Nari-Tschu-Sangpo oder obern Brahmaputra, in Nepal und dem Himalaya 1865-1867. Auf Grund der Karten & Berichte v. Capt. T. G. Montgomerie, mit Zusätzen von A. Petermann. Scale, 1: 2,000,000. Size, 63.1 X 24.8 cm. [XIV.] 1868. Pl. 13.

454. Vergleichende Übersicht der Aufnahmen der Punditen mit den bisherigen Karten. Scale, 1: 9,750,000. Size, 33 X 9.8 cm. [XIV.] 1868. Pl. 13.

455. Reise Indischer Geodäten nach den Goldfeldern von Tibet 1867. Nach einer Karte von Lieut.-Col. J. T. Walker, Chef der Indischen Vermessung. Von A. Petermann. Scale, 1: 2,000,000. Size, 19 X 24.8 cm. XV. 1869. Pl. 6.

456. G. W. Hayward's Reise von Leh nach Kaschgar, 1868-9. Nach der Karte im Journ. R.G.S., Vol. XL. Nebst Übersicht der Höhenverhältnisse der Central-Asiatischen Gebirgs-Systeme von A. Petermann. Scale, 1: 2,500,000. Size, 24.5 X 31.4 cm. XVII. 1871. Pl. 14.

457. Quellgebiet des Indus und Satledsch nach den Routen-Aufnahmen der Pandits (Indier) sowie den Forschungen Strachey's, der Gebrüder v. Schlaginweit u. A. Bearbeitet v. Fr. Hanemann. Red. von A. Petermann. Scale, 1: 1,000,000. Size, 30.7 X 24.7 cm. XVII. 1871. Pl. 20.

458. Aufnahme der Insel Minicoyan der Dampferlinie Aden-Ceylon. Von Capt. J. P. Basevi. Scale, 1: 50,000. Size, 19.2 X 24.6 cm. XVIII. 1872. Pl. 16.

459. Vorderindien [zur Übersicht der Vertheilung der Menschen]. Scale, 1: 40,000,000. Size, ca., 8.5 X 7 cm. Ergbd. VIII. No. 35. 1874. Pl. 1.

460. Das höchste Gebiet der Himalaya-Länder. Nach dem Standpunkte der Kenntniss in 1875. Von A. Petermann. Scale, 1: 1,200,000. Size, 30.9 X 24.4 cm. XXI. 1875. Pl. 8.

461. Przewalski's Reisen von Peking nach Tibet &c. 1870-1873. Nebst Übersicht der neueren Reisen in der Mongolei. Von A. Petermann. Scale, 1: 4,500,000. Size, 49.5 X 36.3 cm. XXII. 1876. Pl. 1.

462. Dichtigkeit der Bevölkerung in Vorderindien. Auf Grund der grossen indischen Zählung 1867-72 zusammengestellt und bearbeitet von H. Wagner. Scale, 1: 7,500,000. Size, 40.9 X 51.9 cm. Ergbd. XI. No. 49. 1876. Pl. 2 [1].

463. Die Territorial-Verhältnisse in Central-Indien. Scale, 1: 4,000,000. Size, 19.3 X 14.5 cm. Ergbd. XI. No. 49. 1876. Pl. 1 [2].

464. Das Pamir Plateau und die angrenzenden Theile des Himalaya, Thian-Schan, Hindu-Kusch &c. Übersicht von D. Forsyth's Expedition nach Kaschgar, 1874 und aller übrigen Reisen in demselben Gebiete von A. Petermann. Scale, 1: 2,200,000. Size, 49.1 X 36 cm. Ergbd. XI. No. 52. 1877.

465. Gebiet der Indischen Pest. Scale, [ca., 1: 38,000,000]. Size, 13.5 X 5.4 cm. XXV. 1879. Pl. 14.

466. Geologische Karte von Vorder-Indien reducirt von H. B. Medlicott und W. T. Blanford's "Preliminary Sketch of the Geology of India" auf A. Petermann's Karte in 2 Bl. Scale, 1: 7,500,000. Size, 41.2 X 48.8 cm. XXV. 1879. Pl. 21.

467. Karte von einem Theil des Sango-Flusses in Tibet aufgenommen von N-m-g, einen Indier bei der Indischen Landesvermessung 1878. Scale, 1: 1,600,000. Size, 24.8 X 19.5 cm. XXVI. 1880. Pl. 2.

10. Farther India and the Malay Peninsula.

468. Karte von Mälaka und Naning, nach Valberg's Aufnahmen und andern Quellen gez. von A. Petermann. Scale, 1: 580,000. Size, 19.2 X 16.1 cm. [III.] 1857. Pl. 21.

469. [Skizze des südlichen Theiles der Malaysche Halbinsel und Umgebung.] Scale, [ca. 1: 8,000,000]. Size, 7.4 X 4.8 cm. [III.] 1857. Pl. 21.

470. Die Tekka-Wälder am Thoungyen und Attaran in Hinter-Indien. Scale, 1: 6,600,000. Size, 5.5 X 8.3 cm. [V.] 1859. Pl. 1.

471. Französische Aufnahme des Me-Khong, 1866-67, und Übersicht der geographischen Kenntniss von Hinter-Indien i. Januar 1868. Von A. Petermann. Scale, 1 : 5,000,000. Size, 19.2 × 24.5 cm. [XIV.] 1868. Pl. 1.

472. Übersichtskarte der Französischen Expedition in Hinterindien vom Me-khong bis zum Jang-tse-kiang 1867-1868. Mit Benutzung einer Skizze von Garnier von A. Petermann. Scale, 1 : 5,000,000. Size, 19.1 × 24.9 cm. XV. 1869. Pl. 10.

473. Die südlichen Batta-Länder auf Sumatra. Hauptsächliche nach Angaben und Zeichnungen Rheinischer Missionare (namentlich Chr. Leibold & W. Heine) & des Ingenieurs Nagel. Unter Redaktion von A. Petermann. Scale, 1 : 1,000,000. Size, 23 × 36.1 cm. XXII. 1876. Pl. 4.

474. Das Missionsgebiet [in den südlichen Batta-Ländern auf Sumatra]. Scale, 1 : 500,000. Size, 13.9 × 19.9 cm. XXII. 1876. Pl. 4.

475. Originalkarte des mittleren Sumatra zur Übersicht der Wissenschaftlichen Expedition 1877 bis 1879. Mit Benutzung der Aufnahmen von Schouw Santvoort, Cornelissen & Makink gezeichnet von D. D. Veth, Mitglied der Expedition. Scale, 1 : 1,000,000. Size, 38.2 × 38 cm. XXVI. 1880. Pl. 1.

476. Graf Szechenyi's Reisenroute von Sayang bis Bamo. Aufgenommen und gezeichnet von Oberleutnant Gustav Kreitner. Scale, 1 : 1,000,000. Size, 30.5 × 24.6 cm. XXVII. 1881. Pl. 12.

477. Reiseroute des indischen Punditen A-a im Gebiet des oberen Irawaddy 1879-80. Nach dem Feldbuch des Erforschers zusammengestellt von Capt. J. E. Sandemann. Scale, 1 : 1,200,000. Size, 19.3 × 24.9 cm. XXVII. 1881. Pl. 14.

II. Chinese Empire.

478. Skizze von untern Amür-Lande nebst Umgebungen. Von A. Petermann. Scale, 1 : 4,500,000. Size, 19 × 24.5 cm. [II.] 1856. Pl. 10.

479. Skizze des Amür-Stroms nach Peschtschuroff's astronomischen Messungen im J. 1855, und die russisch-chinesische Grenze vom J. 1659-1856. Gez. von A. Petermann. Scale, 1 : 6,600,000. Size, 24.6 × 19.1 cm. [II.] 1856. Pl. 36.

480. Physikalische Karte des Amur-Stromes, nach den neuesten Russischen Berichten gez. von A. Petermann. Scale, 1 : 6,000,000. Size, 24.6 × 12.4 cm. [III.] 1857. Pl. 13.

481. Peking und der Pei-ho oder Weisse Fluss, nach der Aufnahme des Macartney'schen Expedition. Scale, 1 : 1,600,000. Size, 9 × 8 cm. [IV.] 1858. Pl. 17.

482. Der Canton-Strom meistens nach den Englischen Aufnahmen von 1840-1857, gezeichnet von A. Petermann. Scale, 41.4 × 24.5 cm. [XIV.] 1868. Pl. 8.

No. 1. Von Canton bis Macao u. Hongkong. Scale, 1 : 450,000. Size, 24 × 24.5 cm.

No. 2. Von Canton bis zur Boca-Tigria. Scale, 1 : 300,000. Size, 30.7 × 24.5 cm.

No. 3. Plan von Canton. Scale 1 : 60,000. Size, 11.4 × 6.4 cm. [IV.] 1858. Pl. 2.

483. Die Aufnahmen der Engländer, Franzosen und Russen in Hinter-Asien bis zum Jahre 1858. Scale, 1 : 8,000,000. Size, 19.3 × 24.5 cm.

(Special-Karton.) Die Aufnahmen an der Süd Küste der Mandchurei durch Bouches [Mouches] im Jahre 1852, May, Wilder, Johnson und Jones im J. 1853. Nach der Englischen Admiralitäts-Karte von 1856. Scale, 1 : 900,000. Size, 19.3 × 14.2 cm. [IV.] 1858. Pl. 6.

484. Karte vom Russisch-Chinesischen Grenzgebiet am Balkhasch-See und Issyk-Kul. Nach handschriftlichen Zeichnungen P. v. Semenow's, und andern authentischen russischen Dokumenten, von A. Petermann. Scale, 1 : 2,870,000. Size, 26.2 × 24.7 cm. [IV.] 1858. Pl. 16.

485. Schematische Skizze zur Übersicht der Orogaphischen Grundzüge der Alpenländer des Alatau und Thian Schan. Scale, 1 : 3,400,000. Size, 12.4 × 14.8 cm. [IV.] 1858. Pl. 16.

486. Karte des Kossogol-Beckens und eines Theiles von Trans-Baikalien. Nach Permikin's Forschungen und anderen authentischen russischen Quellen. Von A. Petermann. Scale, 1 : 1,800,000. Size, 19 × 24.6 cm. [VI.] 1860. Pl. 5.

487. Der eröffneten Handelshäfen in China, Japan und den Philippinen. Meist nach Englischen Aufnahmen, von A. Petermann.

a. Übersichtskarte. Scale, 1 : 32,000,000. Size, 9.4 × 13.3 cm.

b. Schanghai. Scale, 1 : 60,000. Size, 7.8 × 11.2 cm.

c. Schanghai. Scale, 1 : 500,000. Size, 2.3 × 4.8 cm.

d. Taiwan. Scale, 1 : 100,000. Size, 6.9 × 4.2 cm.

e. Kiuangscheu. Scale, 1 : 1,000,000. Size, 5.3 × 4.7 cm. [VI.] 1860. Pl. 11.

488. Umgegend von Peking und nördlicher Theil der Provinz Pe-Tschili. Nach der Englischen Admiralitätskarte (1860). Scale, 1 : 1,350,000. Size, 24.6 × 19.1 cm. [VI.] 1860. Pl. 17.

489. Englische Aufnahme des Ta-Kiang od. Jang-Tse-Kiang durch Commander John Ward, 1858. Von A. Petermann. Scale, 1 : 3,000,000. Size, 24.5 × 11.3 cm. [VII.] 1861. Pl. 5.

490. [Nebenkarte des Östl. Theiles von China, von Peking bis Canton, zur Übersicht des Jang-Tse-Kiang.] Scale, [ca. 1 : 34,800,000]. Size, 4.8 × 6.8 cm. [VII.] 1861. Pl. 5.

491. Englische Aufnahme des Si-Kiang od. West-Flusses durch Bullock, Robinson u. Webster 1859. Von A. Petermann. Scale, 1 : 800,000. Size, 24.5 × 7.8 cm. [VII.] 1861. Pl. 6.

492. Das Bolor-Gebirge und die Quellen des Amudaria. Original-Zeichnung von Mich. de Venukoff, K. Russ. Kapitain & Mitglied der K. Russ. Geog. Ges. Scale, ca. 1 : 6,000,000. Size, 12.3 × 15 cm. [VII.] 1861. Pl. 10.

493. Karte der südlichen Grenzgebiete von Ost-Sibirien. Auf Grund der neuesten Quellen und besonders der grossen (zur Zeit unpublicirten) Karte von Herrn Schwarz, Chef der mathematischen Abtheilung der Sibirischen Expedition 1855-1859 gezeichnet von Gustav Radde. Scale, 1 : 7,500,000. Size, 42.7 × 24.6 cm. [VII.] 1861. Pl. 16.

494. Das Russisch-Chinesische Grenzgebiet im Ili Thal nach einer Original-Zeichnung von Dr. W. Radloff. Scale, 1 : 1,200,000. Size, 19.1 × 15.1 cm. [XII.] 1866. Pl. 5.

495. Die Russisch-Turanisch-Chinesischen Grenzgebiete in Inner Asien. Scale, 1 : 10,000,000. Size, 24.7 × 19.4 cm. [XIV.] 1868. Pl. 8.

496. Forschungen und Aufnahmen zweier Punditen (Indischer Eingebornen) in Tibet, am Nari-Tschu-Sangpo oder oberen Brahmaputra, in Nepal und dem Himalaya 1865-1867. Auf Grund der Karten & Berichte v. Capt. T. G. Montgomerie, mit Zusätzen von A. Petermann. Scale, 1 : 2,000,000. Size, 63.1 × 24.8 cm. [XIV.] 1868. Pl. 13.

497. Vergleichende Übersicht der Aufnahmen der Punditen mit den bisherigen Karten. Scale, 1 : 9,750,000. Size, 33 × 9.8 cm. [XIV.] 1868. Pl. 13.

498. Reise Indischer Geodäten nach den Goldfeldern von Tibet 1867. Nach einer Karte von Lieut. Col. J. T. Walker, Chef der Indischen Vermessung,

von A. Petermann. Scale, 1 : 2,000,000. Size, 19 × 24.8 cm. XV. 1869. Pl. 6.

499. Karte der neuesten Russischen Forschungen im Thian-Schan-Systeme, besonders der Reise zwischen Issyk-Kul und Kaschgar von Ssewerzow & R. v. Osten-Sacken, 1867. Zusammengestellt von A. Petermann. Scale, 1 : 1,500,000. Size, 19.1 × 24.8 cm.

Umgegend des Rigi & Pilatus im gleichen Maassstabe [zum Vergleich]. Size, 2.6 × 1.7 cm.

XV. 1869. Pl. 9.

500. Übersichtskarte der Französischen Expedition in Hinterindien von Me-khong bis zum Jang-tse-kiang 1867-1868. Mit Benutzung einer Skizze von Garnier von A. Petermann. Scale, 1 : 5,000,000. Size, 19.1 × 24.9 cm. XV. 1869. Pl. 10.

501. Karte vom östlichen China & Korea zur Übersicht der Chinesischen Dialekte nach Edkins und der Reisen von Oxenham & Markham 1868-69. Von A. Petermann. Scale, 1 : 7,500,000. Size, 23 × 33.2 cm. XV. 1869. Pl. 17.

502. G. W. Hayward's Reise von Leh nach Kaschgar, 1868-9. Nach der Karte im Journ. R.G.S., Vol. XL. Nebst Übersicht der Höhenverhältnisse der Central-Asiatischen Gebirgs-Systeme von A. Petermann. Scale, 1 : 2,500,000. Size, 24.5 × 31.4 cm. XVII. 1871. Pl. 14.

503. F. v. Richthofen's Reisen in China Sept. 1868-31. Mai 1870, Ney Elias' Aufnahme des Hoangho von Khaifung bis zur Mündung, 1868, Schuffeldt's & Febiger's Aufnahmen in Korea, 1867-8. Von A. Petermann. Scale, 1 : 6,880,000. Size, 23.1 × 33.5 cm. XVII. 1871. Pl. 19.

504. Quellgebiet des Indus und Satledsch nach den Routen-Aufnahmen der Pandits (Indier) sowie den Forschungen Strachey's, der Gebrüder v. Schlagintweit u. A. Bearbeitet v. Fr. Hanemann. Red. von A. Petermann. Scale, 1 : 1,000,000. Size, 30.7 × 24.7 cm. XVII. 1871. Pl. 20.

505. Karte der westlichen Mongolei zur Übersicht der neuesten Russischen Reisen mit Benutzung von Wenjukow's Karte von 1871. Von A. Petermann. Scale, 1 : 4,000,000. Size, 43 × 24.8 cm. XVIII. 1872. Pl. 17.

506. Originalkarte der Reisen von Matusowski und Pawlinow in der westlichen Mongolei 1870. Nach den Russischen Original-Aufnahmen in Manuscript von A. Petermann. Scale, 1 : 2,000,000. Size, 31 × 24.6 cm. XIX. 1873. Pl. 3.

507. Map of the Province of Kuang Tung. From native and foreign authorities by F. Hirth 1872. Scale, 1 : 2,600,000. Size, 49 × 35.4 cm. XIX. 1873. Pl. 14.

508. Canton (Sháng Shing) and its neighbourhood. Scale, 1 : 200,000. Size, 21.9 × 13.6 cm. XIX. 1873. Pl. 14.

509. Originalkarte eines Theiles des nördlichen China, der Mongolei, Mandschurei, des Amur- & Ussuri-Landes, zusammengestellt auf Grund neuer in 1869-72 auf 13 verschiedenen Reisen erhaltener astronomischer u. hypsometrischer Beobachtungen von Dr. Fritsche. Scale, 1 : 8,000,000. Size, 31 × 24.5 cm. XX. 1874. Pl. 12.

510. Nördliche Fortsetzung der Originalkarte des centralen Theiles des Thianschan-Gebirgssystems, umfassend die Seenzone des Balkasch-Alakul & das Siebenstromland. Von A. Petermann. Scale, 1 : 1,100,000. Size, 64.6 × 25.2 cm. Ergbd. X. No. 43. 1875.

511. Przewalski's Reisen von Peking nach Tibet &c. 1870-1873. Nebst Übersicht der neueren Reisen in der Mongolei. Von A. Petermann. Scale, 1 : 4,500,000. Size, 49.5 × 36.3 cm. XXII. 1876. Pl. 1.

512. Originalkarte der Ebene von Peking und des Gebirgslandes im Westen und Norden der Capitale. Zusammengestellt, meist nach eigenen Beobachtungen, von Dr. E. Bretschneider, 1875. Scale, 1 : 400,000. Size, 40.1 × 24.5 cm. Ergbd. X. No. 46. 1876.

513. Das Pamir Plateau und die angrenzenden Theile des Himálaya, Thian-Schan, Hindu-Kusch &c. Übersicht von D. Forsyth's Expedition nach Kaschgar, 1874 und aller übrigen Reisen in demselben Gebiete von A. Petermann. Scale, 1 : 2,200,000. Size, 49.1 × 36 cm. Ergbd. XI. No. 52. 1877.

514. Originalkarte der Provinz Kwang Tung (Canton) zur Übersicht der Deutschen Missions-Stationen. Von J. Nacken. Scale, 1 : 1,500,000. Size, 22.7 × 36.1 cm. XXIV. 1878. Pl. 22.

515. Canton [zur Übersicht der Deutschen Missions-Station]. Scale, 1 : 67,500. Size, 8.8 × 7.4 cm. XXIV. 1878. Pl. 22.

516. Przewalski's Reise von Kuldtscha über den Thian Schan an den Lob Nor und Altyn Tag 1876 & 1877. Scale, 1 : 3,000,000. Size, 31 × 24.5 cm. Ergbd. XII. No. 53. 1878. Pl. 1.

517. Übersichtskarte von Przewalski's Reisen in Inner-Asien 1872-1877. Von A. Petermann. Scale, 1 : 7,500,000. Size, 30.8 × 24 cm. Ergbd. XII. No. 53. 1878. Pl. 2.

518. Delta des Hwang-Ho & Yang-Tze-Kiang. Scale, 1 : 12,000,000. Size, 8.3 × 9.9 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

519. Ehemalige Gestaltung des Delta des Yang-Tze-Kiang. Scale, 1 : 12,000,000. Size, 3.7 × 2.2 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

520. Karte von Dr. A. Regel's Reisen in Central-Asien 1876-1879, sowie der Routen von Kuropatkin, 1876-1877, und Przewalski, 1877. Scale, 1 : 3,000,000. Size, 52.8 × 31.6 cm. XXV. 1879. Pl. 20.

521. Karte von einem Theil des Sampo-Flusses in Tibet aufgenommen von N-m-g, einem Indier bei der Indischen Landesvermessung 1878. Scale, 1 : 1,600,000. Size, 24.8 × 19.5 cm. XXVI. 1880. Pl. 2.

522. Karte der nordwestlichen Mongolei nach den Aufnahmen und Ortsbestimmungen von Potanin u. Rafailow 1876 & 1877. Scale, 1 : 3,500,000. Size, 30.9 × 24.6 cm. XXVII. 1881. Pl. 8.

523. Dr. Albert Regel's Reise nach Turfan Mai bis Nov. 1879. Nach den Tagebüchern entworfen & gezeichnet von B. Hassenstein. Scale, 1 : 1,500,000. Size, 52.6 × 24.6 cm. XXVII. 1881. Pl. 18.

12. Japan.

524. Der eröffneten Handelshäfen in China, Japan und den Philippinen. Meist nach Englischen Aufnahmen, von A. Petermann.

a. Übersichtskarte. Scale, 1 : 32,000,000. Size, 9.4 × 13.3 cm.

b. Die Bai von Jedo nach den Englischen u. Amerik. Aufnahmen 1854 u. 1858. Scale, 1 : 500,000. Size, 9.2 × 13.3 cm.

[VI.] 1860. Pl. 11.

525. Die neuen Departements-Hauptstädte von Japan. Von Leo Metschnikoff. Scale, 1 : 7,500,000. Size, 18.8 × 24.5 cm. XXII. 1876. Pl. 21.

526. Itinerar-Skizze von Ozaka nach Nara, Omnesanjo und Kioto. Nach eigenen Aufzeichnungen von E. Knipping, 1875. Scale, 1 : 250,000. Size, 22.8 × 36.5 cm. XXIV. 1878. Pl. 9.

527. Das jetzige Tokio. Scale, *wanting*. Size, 7.6 × 9.9 cm. XXV. 1879. P. 121.

528. Die Sumidagawamündung in den Jahren Chogen (1028-1036). Scale, *wanting*. Size, 7.6 × 9.9 cm. XXV. 1879. P. 123.

529. Die Sumidagawamündung in der Zeit Eroku (1558–1569). Scale, *wanting*. Size, 7.6 × 9.9 cm.

XXV. 1879. P. 123.

530. Übersichtsskizze von Dr. J. Rein's Reise-
routen in Japan 1874–1876. Scale, 1 : 7,500,000.
Size, 15.9 × 16.4 cm. XXV. 1879. P. 293.

531. Topographische Skizze des Fuji-no-yama-
Gipfels. Nach Dr. R. v. Drasche und Dr. J. Rein
entworfen von B. Hassenstein. Scale, ca. 1 : 12,500.
Size, 12.6 × 12.5 cm. XXV. 1879. P. 369.

532. Dr. A. Woikof's Reisen in Japan, 1876.
Von A. Petermann. Scale, 1 : 2,360,000. Size,
65.1 × 24.4 cm. XXV. 1879. Pl. 3.

533. Hydrographische Skizze der Ebene von
Yedo. Auf Grundlage einer nach Knippings Auf-
nahmen u. nach japanischen Quellen bearbeiteten
Spezialkarte von B. Hassenstein. Scale, 1 : 1,200-
000. Size, 19.4 × 24.6 cm. XXV. 1879. Pl. 7.

534. Die Umgegend der Bai von Tōkio und des
Vulkans Fuji-no-yama. Mit Unterstützung
von Prof. J. Rein und Tadashi Sanda gezeichnet von B.
Hassenstein. Scale, 1 : 400,000. Size, 42.6 × 24.7 cm.
XXV. 1879. Pl. 19.

535. Itinerar-Skizze des Nakasendo von Otsu bis
Tōkio. Nach eigenen Aufzeichnungen von E. Knip-
ping. 1875. Scale, 1 : 250,000.

Blatt I.: Von Otsu bis Kanno. Size, 40.8 × 33.4 cm.

Blatt II.: Von Kanno bis Shimonosawa. Size, 65.8 × 24.8
cm.

Blatt III.: Von Shimonosawa bis Tōkio. Size, 65.7 × 24.9
cm.

Ergbd. XIII. No. 59. 1880. Pl. 1–3.

536. Itinerar-Skizze von Kanagawa nach dem
Oyama und Hakone-Gebirge bis Mishima und Su-
bashiiri. Nach eigenen Aufzeichnungen von E. Knip-
ping. Scale, 1 : 250,000. Size, 37.8 × 24.7 cm.
XXVII. 1881. Pl. 21.

13. Indian Archipelago.

537. Skizze vom Indischen Archipel oder Male-
sien. Scale, 1 : 50,000,000. Size, 19.2 × 9 cm.

[IV.] 1858. Pl. 3.

538. Orographisch-physikalische Karte von Java.
Die Grundlage nach der grossen Karte von Dr. F.
Junghuhn, die Höhenverhältnisse nach allen bisher-
igen hypsommetrischen Messungen von: Blüme, Lange,
Forsten, Hasskarl, Herwer, Hörner, Jukes, Jung-
huhn, Maier, Melvill, Müller, Reinwardt, Smits, Zol-
linger u. A. Von A. Petermann. Scale, 1 : 2,600,000.
Size, 42.4 × 24.9 cm. [VI.] 1860. Pl. 9.

539. Der eröffneten Handelshäfen in China, Ja-
pan und den Philippinen. Meist nach Englischen
Aufnahmen, von A. Petermann.

a. Übersichtskarte. Scale, 1 : 32,000,000. Size, 9.4 ×
13.3 cm.

b. Iloilo. Scale, 1 : 100,000. Size, 4.4 × 5.1 cm.

c. Taiwan. Scale, 1 : 100,000. Size, 6.9 × 4.3 cm.

d. Zamboanga. Scale, *wanting*. Size, 6.9 × 2.4 cm.

e. Sual. Scale, 1 : 1,000,000. Size, 6 × 6.1 cm.

f. Kluangtachen. Scale, 1 : 1,000,000. Size, 5.2 × 4.7 cm.

[VI.] 1860. Pl. 11.

540. Nordwest-Borneo nach einer holländischen
Originalkarte in Mss. und nach den Aufnahmen von
Belcher u. Williams. Von A. Petermann. Scale,
1 : 850,000. Size, 24.7 × 19.5 cm.

[VII.] 1861. Pl. 7.

541. Umgebung von Sambas [Borneo]. Scale,
1 : 425,000. Size, 7 × 4.8 cm.

[VII.] 1861. Pl. 7.

542. Administrative Eintheilung und Verkehrs-
wege von Java. Mit Benutzung der Karte von S. H.
Serné. Von A. Petermann. Scale, 1 : 2,600,000.
Size, 42.1 × 15.3 cm. [XII.] 1866. Pl. 18.

543. Kultur-Karte von Java hauptsächlich nach
Dr. F. Junghuhn. Von A. Petermann. Scale, 1 :
2,600,000. Size, 42.1 × 15.1 cm. [XII.] 1866. Pl. 18.

544. Spezialkarte der nördlichen Molukken von
A. Petermann. Scale, 1 : 2,500,000. Size, 19.1 ×
24.8 cm. XIX. 1873. Pl. 11.

545. Die südlichen Batta-Länder auf Sumatra.
Hauptsächlich nach Angaben und Zeichnungen
Rheinischer Missionare (namentlich Chr. Leipoldt &
W. Heine) & des Ingenieurs Nagel. Unter Redak-
tion von A. Petermann. Scale, 1 : 1,000,000. Size,
23 × 36.1 cm. XXII. 1876. Pl. 4.

546. Das Missionsgebiet [in den südlichen Batta-
Ländern auf Sumatra]. Scale, 1 : 500,000. Size, 13.9
× 19.9 cm. XXII. 1876. Pl. 4.

547. Originalkarte des mittleren Sumatra zur
Übersicht der wissenschaftlichen Expedition 1877
bis 1879. Mit Benutzung der Aufnahmen von
Schouw Santvoort, Cornelissen & Makkink gezeich-
net von D. D. Veth, Mitglied der Expedition. Scale,
1 : 1,000,000. Size, 58.2 × 38 cm.

XXVI. 1880. Pl. 1.

IV. AFRICA.

1. General.

548. Skizze zur Übersicht der Reise-Routen Dr.
H. Barth's in Nord-u. Central-Afrika, und des Ge-
biets seiner Forschungen überhaupt. Gezeichnet von
A. Petermann. Scale, 1 : 32,000,000. Size, 16.5 ×
12.2 cm. [I.] 1855. P. 307.

549. Kartenskizze von Africa zur vergleichenden
Übersicht der Reisen Dr. Barth's und Dr. Living-
stone's. Gez. von A. Petermann. Scale, 1 : 43,000-
000. Size, 18.8 × 25 cm. [III.] 1857. Pl. 3.

550. Skizze von Inner Afrika zur Übersicht der
10 Blatt-Karte von Petermann & Hassenstein. Scale,
1 : 40,000,000. Size, 11.6 × 12.8 cm.

Ergbd. II. [No. 6.] 1861. P. 1.

551. Karte von Inner-Afrika nach dem Stande
der geographischen Kenntniss in den Jahren 1861 bis
1863. Nach den Quellen bearbeitet von A. Peter-
mann und B. Hassenstein. 10 Bl. Blatt 1: Fessan.
Bl. 2: Ägypten. Bl. 3: Tebu-Land. Bl. 4: Nubien.
Bl. 5: Wadai und Bagirmi. Bl. 6: Dar-Fur und
Kordofan. Bl. 7: Dar-Banda. Bl. 8: Gondokoro.
Bl. 9: Kongo. Bl. 10: Unyamwesi. Scale, 1 : 2,000-
000. Size, each, 52.3 × 42.6 cm.

Ergbd. II. Nos. 7, 8, 10, 11. 1862–3. Pl. 1–10.

552. Übersicht der Reisen von Overweg, Vogel,
v. Beurmann und Steudner. Von A. Petermann.
Scale, 1 : 14,000,000. Size, 31.1 × 24.7 cm.

[X.] 1864. Pl. 2.

553. Übersicht von Gerhard Rohlfs' Reisen in
Afrika, 1861–1867. Von A. Petermann. Scale, 1 :
14,000,000. Size, 23 × 32.2 cm.

[XIII.] 1867. Pl. 12.

554. Afrika. Probeblatt der neuesten Bearbei-
tungen für Stieler's Schul-Atlas und Übersicht von
Dr. G. Nachtigal's Reisen [punktirt] 1869–1873.
Abreise Dr. Nachtigal's von Tripoli 18. Februar
1869, Reise von Tümmo nach Tibesti 27. Juni–20.
Sept. 1869, von Mursuk nach Kuka 18. April–6. Juli
1870, von Kuka nach Borgu Ende März 1871–9
Januar 1872, nach Bagirmi 27. Febr.–7. Sept. 1872
nach Wadai und Darfur 1873. Scale, 1 : 45,000,000.
Size, 27.6 × 21.3 cm. XX. 1874. Pl. 14.

555. Übersichtsblatt von Afrika [zur Orientirung
der Route der projektirten Eisenbahn nach Central-
Afrika]. Scale, 1 : 50,000,000. Size, 19.2 × 10.7 cm.
XXIII. 1877. Pl. 3.

556. Standpunkt der Erforschung von Äquatorial-Afrika, 1877. Nebst roher vorläufiger Skizze von Stanley's Entdeckung des Kongo, 1876-7. Von A. Petermann. Scale, 1:12,500,000. Size, 31.1 × 24.8 cm. XXIII. 1877. Pl. 22.

557. Schauplatz von Gerhard Rohlfs' neuem Afrikanischen Forschungs-Unternehmen. Von A. Petermann. Scale, 1:12,500,000. Size, 19.1 × 24.8 cm. XXIV. 1878. Pl. 3.

558. Übersichtskarte von dem Verbreitungsgebiet des Schwarzen Todes in den Jahren 1346 bis 1351 und den äussersten Grenzen der Pest-Epidemien zwischen 1351 und 1696. Von Dr. Carl Martin. Mean scale, 1:33,000,000. Size, 32.4 × 15.5 cm. XXV. 1879. Pl. 14.

559. Die äussersten Grenzen der Pest-Epidemien des Achtzehnten Jahrhunderts. — Entworfen von Dr. Carl Martin. Mean scale, [1:33,000,000]. Size: 1701 bis 1721, 8.5 × 11.3 cm.; 1726 bis 1744, 10.6 × 11.3 cm.; 1747 bis 1805, 13.3 × 11.3 cm. XXV. 1879. Pl. 14.

560. Die Pest-Epidemien des Neunzehnten Jahrhunderts. Mean scale, [1:33,000,000]. Size: 1810 bis 1832, 13.5 × 7.4 cm.; 1833 bis 1874, 13.5 × 7 cm. XXV. 1879. Pl. 14.

2. Nile, and Red Sea Districts, Abyssinia.

(Including East Soudan.)

561. Kartenskizze des Isthmus von Sues, zur Veranschaulichung des projektirten Kanals; nebst Übersicht der hypsometrisch gemessenen Punkte in Palästina. Von A. Petermann. Scale, 1:2,700,000. Size, 24.5 × 18.8 cm. [I.] 1855. Pl. 23.

562. Th. v. Heuglin's Reise nach Abessinien, 1852 & 1853. Scale, 1:2,000,000. Size, 24.8 × 19.4 cm. [III.] 1857. Pl. 23.

563. Die Insel Perim und die Eingänge in das Rothe Meer. Scale, 1:700,000. Size, 9 × 8.3 cm. [IV.] 1858. P. 163.

564. Skizze der Habab-Länder (nach einer Originalkarte Th. v. Heuglin's). Scale, 1:5,000,000. Size, 11.4 × 12 cm. [IV.] 1858. P. 370.

565. Originalkarte von Th. v. Heuglin's Reise durch die Bajuda Landschaft von Ab-Dom nach Chartum, 1856. Von A. Petermann. Scale, 1:1,900,000. Size, 19 × 24.6 cm. [V.] 1859. Pl. 17.

566. Das Rothe Meer und die wichtigsten Häfen seiner Westhälfte, zur Übersicht der Ergebnisse von Th. v. Heuglin's Reise, 1857. Nach der grossen Moeresby'schen und andern Aufnahmen, sowie nach handschriftlichen Croquis Th. v. Heuglin's, von A. Petermann. Scale, 1:5,000,000. Size, 24.6 × 43 cm.

a. S herm Schlab. Scale, 1:150,000. Size, 4.2 × 3 cm.

b. Sauakin. Scale, 1:150,000. Size, 6.6 × 4.5 cm.

c. Bucht von Aqlq und Insel Eirö. Scale, 1:1,400,000. Size, 6.6 × 5 cm.

d. Massaua. Scale, 1:150,000. Size, 6.6 × 8 cm.

e. Bai von Adulla. Scale, 1:1,000,000. Size, 6.6 × 7.1 cm.

f. Nokéri od. Nechesia. Scale, 1:10,000. Size, 4.2 × 3.1 cm.

g. Insel Majün od. Perim. Scale, 1:150,000. Size, 6.8 × 4.2 cm.

h. Alt & Neu-Qosseir. Scale, 1:150,000. Size, 5.4 × 5.1 cm.

i. Mocha od. Moka. Scale, 1:100,000. Size, 4.6 × 6.2 cm.

[VI.] 1860. Pl. 15.

567. Skizze vom Rothen Meere zur Übersicht der politischen u. commercialen Verhältnisse, &c. Scale, 1:15,000,000. Size, 8.9 × 14.9 cm. [VI.] 1860. Pl. 15.

568. Der nördlichste Theil von Abessinien und die Landschaften der Bocos und Habab. Nach allen vorhandenen Reiseberichten, Karten &c. provisorisch entworfen. Von A. Petermann. Scale, 1:900,000. Size, 18.1 × 24.5 cm. [VII.] 1861. Pl. 11.

569. Karte der Bai von Sues. Nach der Engl. Aufnahme v. Comm. Mansell, 1856. Scale, 1:140,000. Size, 19 × 16.3 cm. [VII.] 1861. Pl. 15.

570. Entwurf einer Karte von Ost-Afrika zwischen Chartum & dem Rothen Meere bis Sauakin und Massaua. Nach allen vorhandenen Quellen entworfen von A. Petermann, zum Gebrauch der v. Heuglin'schen Expedition ausgeführt durch Justus Perthes' Geographische Anstalt Gotha, Dec. & Jan. 1860-61. Scale, 1:1,500,000. Size, 52.4 × 43.4 cm. Ergbd. [I.] [No. 6]. 1861.

571. Karte von Inner-Afrika nach dem Stande der geographischen Kenntniss in den Jahren 1861 bis 1863. Nach den Quellen bearbeitet von A. Petermann und B. Hassenstein. Blatt 2, Ägypten; Bl. 4, Nubien. Scale, 1:2,000,000. Size, each, 52.3 × 42.6 cm. Ergbd. II. Nos. 7, 8. 1862. Pl. 2, 4.

572. Karte des Nil-Delta und des Isthmus von Sues von A. Petermann. Scale, 1:1,500,000. Size, 19.2 × 13.6 cm. [X.] 1864. Pl. 8.

573. Plan von Ismailia von Ch. Lecocq de la Fremondière. Scale, 1:20,000. Size, 9.7 × 11 cm. [X.] 1864. Pl. 8.

574. Karte des Süsswasser-Canals [Sues] von Divisions-Chef M. Cazaux. Scale, 1:750,000. Size, 9.5 × 11 cm. [X.] 1864. Pl. 8.

575. Originalkarte der Nord-Abessinischen Grenzlande: Bogos, Mensa, Marea, und der umliegenden Gebiete. Hauptsächlich nach den Aufnahmen und Arbeiten der Deutschen Expedition unter v. Heuglin, Kinzelbach, Munzinger und Steudner, 1861, und nach anderen Quellen. Entworfen von A. Petermann, bearbeitet und gezeichnet von B. Hassenstein. Scale, 1:500,000. Size, 50.7 × 25 cm. Ergbd. III. No. 13. 1864. Pl. 1.

576. Originalkarte von Hamasen, Saraë, Adiabo &c. in Nord-Abessinien. Nach den Arbeiten & Aufnahmen von Th. v. Heuglin, Werner Munzinger, A. d'Abbadie u. A. Entworfen von A. Petermann, bearbeitet und gezeichnet von B. Hassenstein. Scale, 1:500,000. Size, 19.1 × 24.6 cm. Ergbd. III. No. 13. 1864. Pl. 2.

577. Originalkarte von Nord-Abessinien und den Ländern am Märeh, Barka und Auseba. Ein Ergebniss der Deutschen Expedition 1861 & 1862 und zwar vorzugsweise der Arbeiten von Werner Munzinger, ferner derjenigen von Th. v. Heuglin & Th. Kinzelbach, mit Benutzung der Bestimmungen von Antoine d'Abbadie, 1838-1848, u. Anderen. Entworfen von A. Petermann, bearbeitet von B. Hassenstein. Scale, 1:1,000,000. Ausgabe mit Colorit zur Übersicht der Reiserouten. Size, 52.3 × 42.9 cm. Ausgabe mit Colorit zur Übersicht der politischen Verhältnisse. Size, 52.2 × 42.7 cm. Ergbd. III. No. 13. 1864. Pl. 3, 3b.

578. Originalkarte des Soturba Gebirges oder des von den Ammed Goräb bewohnten Theiles von Nubien von G. Schweinfurth, 1864 & 65. Küsten u. Bänke nach Moeresby & Th. v. Heuglin von A. Petermann. Scale, 1:500,000. Size, 19.1 × 24.7 cm. [XI.] 1865. Pl. 11.

579. Originalkarte des westlichen Theiles des oberen Nil-Gebietes. Zur Übersicht der Reisen und Forschungen von Th. v. Heuglin 1862-63 & 64. Nebst rektificirter Darstellung der Ergebnisse aller bisherigen Reisen in demselben Gebiete. Gezeichnet von B. Hassenstein. Scale, 1:2,000,000. Size, 42.8 × 52.1 cm. Ergbd. III. No. 15. 1865.

580. Originalkarte der Strasse zwischen Berber & Sauakin in Nubien. Nach den Aufnahmen und einer Manuskriptkarte Theodor von Heuglin's. Gezeichnet von B. Hassenstein. Scale, 1:500,000. Size, 24.6 × 19.2 cm. [XII.] 1866. Pl. 9.

581. Der Hafen von Sauakin. Nach einem Manuskriptplan Th. v. Heuglin's und der Aufnahme des Capt. W. Pullen 1858-59. Scale, 1:50,000. Size, 9.5 × 7.9 cm. [XII.] 1866. Pl. 9.

582. John Petherick's Reisen am oberen Nil 1858-1863. (Copie der Karte im Journ. R.G.S., Vol. 35). Scale, 1:2,000,000. Size, 24.1 × 43.4 cm. [XII.] 1866. Pl. 10.

583. Die nördlichen Zugänge zu Abessinien. Spezialkarte des Nordabessin's Gebirgslandes zwischen Massaua und Halay von A. Petermann. Scale, 1:300,000. Size, 43.2 × 24.5 cm. [XIII.] 1867. Pl. 14.

584. Spezialkarte von Nord-Abessinien von A. Petermann. Scale, 1:1,000,000. Size, 43 × 24.4 cm. [XIII.] 1867. Pl. 15.

585. Übersichtskarte von Abessinien. Scale, 1:8,500,000. Size, 13.2 × 11.5 cm. [XIII.] 1867. Pl. 15.

586. Spezialkarte der Umgegend von Zulla und der Haddas & Kumaylo Pässe. Nach den Aufnahmen des Oberstlieutenant R. Phayre, Generalquartiermeister der Engl. Armee. November 1867. Von A. Petermann. Scale, 1:300,000. Size, 19.3 × 24.5 cm. [XIV.] 1868. Pl. 5.

587. Die ersten Aufnahmen der Englischen Armee in Abessinien, November-Januar 1867-1868, nach offiziellen Mittheilungen. Nebst Übersicht des voraussichtlichen Kriegsschauplatzes bis Magdala. Von A. Petermann. Scale, 1:1,000,000. Size, 20.2 × 52.8 cm. [XIV.] 1868. Pl. 6.

588. Phyto-geographische Karte des Nilgebietes und der Uferländer des Rothen Meeres nach älteren und neueren Quellen entworfen und gezeichnet von Dr. G. Schweinfurth 1867. Scale, 1:10,000,000. Size, 22.7 × 33.4 cm. [XIV.] 1868. Pl. 9.

589. Originalkarte von Central-Abessinien. Zum grossen Theil nach unpublirten Documenten von A. Petermann. Scale, 1:1,000,000. Size, 22.8 × 33.4 cm. [XIV.] 1868. Pl. 10.

590. Spezialkarte des Hochlandes von Abessinien zwischen Tekonda und Addigerat. Nach den Englischen Aufnahmen, Detailberichten &c. von A. Petermann. Scale, 1:3,000,000. Size, 19.3 × 18.9 cm. [XIV.] 1868. Pl. 11.

591. Gerhard Rohlfs' Reise von Magdala nach Antalo, April-Mai 1868. Von A. Petermann. Scale, 1:1,000,000. Size, 19.6 × 24.6 cm. [XIV.] 1868. Pl. 15.

592. Daa Nil-Quellgebiet und die Äquatorialen See'n Afrika's, nebst Übersicht der Reisen von Carlo Piaggia, 1860-1865, und der neuesten Nachrichten von Ambrose & Jules Poncet 1868. Von A. Petermann. Scale, 1:8,000,000. Size, 19.2 × 24.6 cm. [XIV.] 1868. Pl. 20.

593. Karte der Englischen Aufnahmen in Abessinien, 1867 & 1868. Auf Grund der v. Engl. Kriegsminister* Feb. 1869 herausgegebenen 5 Blatt-Karte der Aufnahmen des Vermessungscorps unter Carter, Dummier & Holdich, mit Benutzung der Messungen & Arbeiten von Markham, offiz. Geographen der Expedition, der Aufnahmen des General-Quartiermeisters Phayre u. A. Zusammengestellt von A. Petermann. Scale, 1:450,000. Nördliche Hälfte [Pl. 7.] Size, 19.9 × 52.4 cm. Südliche Hälfte [Pl. 8.] Size, 19.9 × 52.4 cm. XV. 1869. Pl. 7, 8.

594. Umgebung von Magdala... Scale, 1:225,000. Size, 10.8 × 8.5 cm. XV. 1869. Pl. 8.

595. Neue Karte des Landes zwischen Suäkin und Berber. Nach den Aufnahmen von Heuglin und Schweinfurth gez. & entw. von Dr. G. Schweinfurth 1868. Scale, 1:1,000,000. Size, 38.1 × 24.8 cm. XV. 1869. Pl. 15.

596. Zoo-geographische Karte des Nilgebietes und der Uferländer des Rothen Meeres von M. Th. v. Heuglin, 1869. Scale, 1:10,000,000. Size, 22.6 × 33.2 cm. XV. 1869. Pl. 21.

597. Originalkarte von Dr. G. Schweinfurth's Reisen im obern Nilgebiete 1869 & 1870. Nach Dr. Schweinfurth's eigenen Karten-Zeichnungen & mit Zugrundelegung der astronomischen Bestimmungen von J. Petherick. Von A. Petermann. Scale, 1:1,080,000. Size, 24.8 × 64.7 cm. XVII. 1871. Pl. 7.

598. Übersichtskarte des westlichen oberen Nilgebiets. Scale, 1:3,000,000. Size, 9.9 × 9.9 cm. XVII. 1871. Pl. 7.

599. Originalkarte von Werner Munzinger's Erforschung der Gebiete der Habab- & Beni-Amer-Völker Januar-Oktober 1871. Nebst Übersicht der gegenwärtigen Kenntniss der Nord-Abessinischen Grenzländer Bogos, Mensa, Marea. Von A. Petermann. Scale, 1:500,000. Size, 43 × 51.8 cm. XVIII. 1872. Pl. 12.

600. Originalkarte von Dar-Fertit und den anstossenden Bongo, Djur- & Dinka-Territorien entworfen und gezeichnet von Dr. G. Schweinfurth. Scale, 1:1,000,000. Size, 40.3 × 24.6 cm. XVIII. 1872. Pl. 15.

601. Originalkarte von Hoch-Sennaar umfassend: Dar Roseres, Fassogl, Bertat & Bämbschir; Dar el Fundsch & Burum; zur Übersicht der Reisen vom Ernst Marno, 1870-71. Mit Benutzung der ältern Angaben von Caillaud, Russeger, Trémaux, Hartmann. Scale, 1:1,000,000. Size, 20 × 52.8 cm. XVIII. 1872. Pl. 23.

602. Original-Skizze des Bahr Seraf und seines Gebietes nach den Beobachtungen von Ernst Marno 18. Januar-2. Sept. 1872. Scale, 1:2,000,000. Size, 19.2 × 24.6 cm. XIX. 1873. Pl. 8.

603. Kartenskizze zur Übersicht von Pascha Baker's Eroberungszug in die obern Nilländer 1870-2. Von A. Petermann. Scale, 1:2,100,000. Size, 19.1 × 24.8 cm. XIX. 1873. Pl. 19.

604. Originalkarte der Erforschung der Libyschen Wüste durch die Expedition von Dr. G. Rohlfs Dezember & Januar 1873-4. Nach den Arbeiten von Dr. Rohlfs, Dr. Jordan & Dr. Zittel zusammengestellt von A. Petermann. Scale, 1:1,400,000. Size, 31.1 × 24.3 cm. XX. 1874. Pl. 9.

605. Meerbusen von Aden. Scale, 1:5,000,000. Size, 7 × 4.4 cm. XX. 1874. Pl. 14.

606. Originalkarte der von G. Rohlfs geführten Expedition in die Libysche Wüste 1873-1874. Nach astronomischen Ortsbestimmungen & terrestrischen Aufnahmen von W. Jordan, mit Benutzung topographischer Skizzen von G. Rohlfs bearbeitet von W. Jordan, Mitglied der Expedition. Die Oase Chargah nach der Aufnahme von Dr. G. Schweinfurth. Die geologischen Bemerkungen von Dr. Zittel, die botanischen von Dr. Ascherson. Scale, 1:1,300,000. Size, 52.7 × 42.7 cm. XXI. 1875. Pl. 11.

607. Originalkarte der Gebietes des obern Nil, Übersicht sämtlicher Reisen bis 1875. Von A. Petermann. Scale, 1:2,100,000. Size, 24.7 × 31.2 cm. XXI. 1875. Pl. 22.

608. Originalkarte von G. A. Hagenmacher's Reise im Somali-Lande März & April 1874. von A. Petermann. Scale, 1:1,000,000. Size, 19.4 × 24.5 cm. Ergbd. X. No. 47. 1876.

609. Original-Aufnahme des Weissen Nil von Chartum bis Rigaf von Lieut. Watson & Chipendall, R. E., Oktober & November 1874. Reduktion von A. Petermann. Scale, 1:2,200,000. Size, 20 × 53.2 cm. XXIII. 1877. Pl. 9.

610. Schweinfurth's & Güssfeldt's Reise in der Arabischen Wüste März & April 1876. Nach Dr.

P. Güssfeldt's astronomischen & Itinerar-Aufnahmen. Scale, 1 : 1,000,000. Size, 19.3 X 11.6 cm.

XXIII. 1877. Pl. 14.

611. Dér Mar Antonius [Wadi Araba] aufgenommen von Dr. Paul Güssfeldt, April 1876. Scale, 1 : 3,000. Size, 19.3 X 13 cm. XXIII. 1877. Pl. 14.

612. Spezialkarte vom Mittleren Ost-Sudan hauptsächlich auf Grundlage von E. de Prussenaere's astronomischen & trigonometrischen Messungen mit Benutzung aller bekannten & vieler noch unveröffentlichten Aufnahmen bearbeitet von K. Zöppritz. Scale, 1 : 1,000,000. Size, 48.2 X 33.5 cm. Ergbd. XI. No. 50. 1877.

613. Der Weisse Nil zwischen 6 & 100 nördlicher Breite und der Untere Sôbât auf Grundlage der astronomischen Bestimmungen von Speke, S. W. Baker, Petherick, Prussenaere, J. A. Baker, sowie der Flussaufnahmen von Werne, Lejean, Heuglin, Steudner, Marno, gezeichnet von K. Zöppritz. Scale, 1 : 2,000,000. Size, 15.5 X 19 cm. Ergbd. XI. No. 50. 1877.

614. Gebel Gule. Aufgenommen von A. von Barnim. Scale, 1 : 100,000. Size, 4.1 X 2.7 cm. Ergbd. XI. No. 50. 1877.

615. Die nördlichen Gebäl-el-Fung nach den Aufnahmen von v. Barnim, Hartmann, de Prussenaere, Marno. Scale, 1 : 500,000. Size, 8.3 X 10 cm.

616. Berggruppe Rôrd & Gemmâm [Gebäl-el-Fung]. Scale, 1 : 200,000. Size, 4.4 X 5.7 cm. Ergbd. XI. No. 50. 1877.

617. Zöppritz, Spezialkarte vom Mittleren Ost-Sudan (Südliches Blatt). Scale, 1 : 1,000,000. Size, 48.2 X 33.5 cm. Ergbd. XI. No. 51. 1877.

618. Schauplatz von Gerhard Rohlfs' neuem Afrikanischen Forschungs-Unternehmen. Von A. Petermann. Scale, 1 : 12,500,000. Size, 19.1 X 24.8 cm. XXIV. 1878. Pl. 3.

619. Nil-Delta. Scale, 1 : 3,000,000. Size, 8.5 X 7.1 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

620. Die Strombarren des Bahr el Djebel. Scale, 1 : 2,200,000. Size, 5 X 14.6 cm. XXV. 1879. P. 273.

621. Reiseroute des Grafen W. von Zichy im Gebiet der Danakil im März 1875. Scale, 1 : 1,000,000. Size, 17.5 X 15 cm. XXVI. 1880. P. 133.

622. Die Ruinenfelder und das Natron-Thal im nordöstl. Theil der Libyschen Wüste. Nach Dr. Junker's Tagebuch gez. von B. Hassenstein. (Junker's Reisen in N. & C. Afrika, Blatt 3.) Scale, 1 : 1,000,000. Size, 19.2 X 24.9 cm. XXVI. 1880. Pl. 9.

623. Skizze der Klöster und See'n des Natron-Thales. Nach Junker (1875), Andréossy (1798), Wilkinson (1834) u. A. gez. von B. Hassenstein. Scale, 1 : 500,000. Size, 9.1 X 6.2 cm. XXVI. 1880. Pl. 9.

624. Dr. W. Junker's Reisen in Nordost & Central-Afrika: Blatt No iv: Karte der Route durch das Thal des Chor Baraka in die ägyptische Provinz Taka vom 1. bis 30. März 1876. Mit Berücksichtigung der neuesten Reisen u. Erforschungen im nördlichen ägyptisch-abessinischen Grenzgebiet, bearbeitet und gezeichnet von B. Hassenstein. Scale, 1 : 1,000,000. Size, 36.4 X 49.5 cm. XXVII. 1881. Pl. 3.

625. Originalkarte einer Reiseroute von Ladô bis Dara, nach der Itinerar-Aufnahme von R. W. Felkin & Rev^d C. T. Wilson, M.A., Sept. bis Dec. 1879, construiert u. gezeichnet von B. Hassenstein. Scale, 1 : 2,000,000. Size, 20 X 53.1 cm. XXVII. 1881. P. 4.

626. E. Marno's Aufnahme des mittleren Bahr el Abiad und des Bahr el Seraf [Äquatorial Nil-Gebiet] Sept. 1879 bis März 1880. Nach dem Original-Tagebuch u. handschriftl. Skizzen construiert & auto-

graphirt von Chr. Peip. Scale, 1 : 500,000. Size, 30.1 X 41 cm. XXVII. 1881. Pl. 20.

627. Skizze des projectirten Kanal's zur Verlegung der Mündung des Bahr el Gebel [Äquatorial Nil-Gebiet]. Scale, 1 : 100,000. Size, 13.3 X 4.7 cm. XXVII. 1881. Pl. 20.

628. Skizze der Barre im Bahr el Abiad [Äquatorial Nil-Gebiet] v. 7-15 Dec. 1880 durchbrochen von E. Marno. Scale, 1 : 100,000. Size, 13.3 X 6 cm. XXVII. 1881. Pl. 20.

629. Skizze des projectirten Kanal's zur Verlegung der Sobat-Mündung [Äquatorial Nil-Gebiet]. Scale, 1 : 100,000. Size 3.5 X 4 cm. XXVII. 1881. Pl. 20.

3. Tripolis, Fezzan, Algiers, and Morocco.

630. Skizze zur Übersicht der Reise-Routen Dr. H. Barth's in Nord- u. Central-Afrika, und des Gebiets seiner Forschungen überhaupt. Gezeichnet von A. Petermann. Scale, 1 : 32,000,000. Size, 16.5 X 12.2 cm. [I.] 1855. P. 307.

631. Map of part of Northern Africa showing the Routes of the Expedition under Messrs. Richardson, Bath, Overweg & Vogel in the years 1850 and 1853. Constructed by Augustus Petermann, F.R.G.S. Scale, 1 : 2,100,000. Size, 35.4 X 50.9 cm. [I.] 1855. Pl. 19.

632. Das Ghurian-Gebirge nach Dr. Barth's Messungen entw. u. gez. von A. Petermann. (Aus Dr. Barth's Reisewerk, Bd. 1.) Scale, 1 : 500,000. Size, 13.3 X 8.5 cm. [III.] 1857. Pl. 9.

633. Originalkarte von H. Duveyrier's Reise im Grenzgebiet der Französischen Sahara. Von Ghardäja nach El Goléâ, August-September 1859. Nach den astron. Bestimmungen und Handzeichnungen des Reisenden. Von A. Petermann. Scale, 1 : 1,000,000. Size, 19 X 24.6 cm. [VI.] 1860. Pl. 3.

634. Karte der Sahara von Ghardäja bis Tuât. Nach eignen Beobachtungen und denen der Eingebornen zusammengestellt von H. Duveyrier (Ghardäja 1859). Scale, 1 : 4,000,000. Size, 13 X 15.5 cm. [VI.] 1860. Pl. 3.

635. Originalkarte des nördl. von Ghadâmes & im Grenzgebiete v. Algier, Tunis & Tripoli belegenen Theiles der Sahara. Nach einer "Ghadâmes, Aug. 1860" datirten Original-Zeichnung von Henry Duveyrier. Mit Benutzung anderer Quellen zusammengestellt von A. Petermann. Scale, 1 : 2,500,000. Size, 24.6 X 19.1 cm. [VII.] 1861. Pl. 13.

636. Skizze der Tripolitanischen Küste. Versuch einer Wiederherstellung der alten Itinerarien von Vivien de St. Martin, October 1861. Scale, 1 : 1,500,000. Size, 19.1 X 8 cm. [VIII.] 1862. Pl. 3.

637. Karte von Inner-Afrika nach dem Stande der geographischen Kenntniss in den Jahren 1861 bis 1863. Nach den Quellen bearbeitet von A. Petermann und B. Hassenstein. Blatt 1, Fezzan. Scale, 1 : 2,000,000. Size, 52.3 X 42.6 cm. Ergbd. II. No. 8. 1862. Pl. 1.

638. Originalkarte von M. v. Beurmann's Reise von Bengasi nach Mursuk & Wau, 13. Februar bis 6. Juni 1862. Nach den astronomischen Bestimmungen, Höhenmessungen, Originalzeichnungen & Berichten M. v. Beurmann's von A. Petermann. Scale, 1 : 3,500,000. Size, 23.4 X 24.6 cm. Ergbd. II. No. 10. 1862.

639. M. v. Beurmann's Reise von Mursuk nach Gatrôn und Wau, 2. Mai bis 6. Juni 1862. Scale, 1 : 2,000,000. Size, 16.1 X 10 cm. Ergbd. II. No. 10. 1862.

640. Plan von Mursuk [Fezzan] aufgenommen

von M. von Beurmann, Juni 1862. Scale, 1 : 6,666. Size, 19.6 × 24.7 cm. Ergbd. II. No. 10. 1862.
 641. Umgegend von Bengasi [Tripoli]. Scale, 1 : 2,000,000. Size, 5.2 × 6 cm.

Ergbd. II. No. 10. 1862.
 642. Karte der Central-Sahara, des nördlichen Tuareg-Landes, zur Übersicht der Forschungen von Henry Duveyrier 1859-1861. Mit Benutzung der Reisen & Erkundigungen von: Richardson, Barth, Vogel, Dickson, Prax, Fresnel, Cherbonneau, Bonnemain, Bu-Derba, de Colomb, Colonieu u. Burin &c &c. Von A. Petermann. Scale, 1 : 7,500,000. Size, 19 × 24.6 cm. [IX.] 1863. Pl. 12.

643. Karte zur Übersicht der Reisen von G. Rohlfs in Marokko, 1861-64. Von A. Petermann. Scale, 1 : 1,000,000. Size, 19.1 × 24.7 cm.

[XI.] 1865. Pl. 4.
 644. Originalkarte von Gerhard Rohlfs' Reisen in Central- & Süd-Marokko. (Atlas, Taflet, Draa &c.) 1862 & 1864. Nach Rohlfs' Tagebuch & persönlichen Angaben mit Benutzung anderer Quellen gezeichnet von B. Hassenstein. Scale, 1 : 2,000,000. Size, 24.6 × 42.8 cm.

[XI.] 1865. Pl. 6.
 645. Die Oasen von Taflet. Nach G. Rohlfs gez. von B. Hassenstein. Scale, 1 : 1,000,000. Size, 6.3 × 14.7 cm. [XI.] 1865. Pl. 6.

646. Originalkarte von Gerhard Rohlfs' Reise durch die Oasen von Tuat & Tidikelt und den nördlichen Theil des Tuareg-Gebietes (Nord-Afrika). Nach dem Tagebuch des Reisenden entworfen, und mit Benutzung der Karten & Erkundigungen von Duveyrier, Colonieu & Burin, de Colomb u. A. gezeichnet von B. Hassenstein. Scale, 1 : 2,000,000. Size, 52.4 × 24.6 cm. [XI.] 1865. Pl. 14.

647. Die Oasengruppe von Tidikelt. Nach dem Tagebuch und mündlichen Angaben G. Rohlfs' gezeichnet von B. Hassenstein. Scale, 1 : 1,000,000. Size, 18.4 × 9.7 cm. [XI.] 1865. Pl. 14.

648. Die Südhälfte der Oasengruppen von Tuat; von Tsabit bis zum Eigentlichen Tuat. Nach den Angaben des Reisenden Gerhard Rohlfs und mit Berücksichtigung der Karten von de Colomb gezeichnet von B. Hassenstein. Scale, 1 : 1,000,000. Size, 7.4 × 16.1 cm. [XI.] 1865. Pl. 14.

649. Übersichtskarte der Reisen von Gerhard Rohlfs in Marokko, Tuat, Tripolitaniern, Fessan &c. 1861-1865. Von A. Petermann. Scale, 1 : 7,500,000. Size, 42 × 24.7 cm. [XII.] 1866. Pl. 2.

650. Originalkarte zur Übersicht von G. Rohlfs' Reisen in Tripolitaniern & Fessan 1864 & 1865. Von A. Petermann. Scale, 1 : 3,500,000. Size, 19.2 × 24.9 cm. Ergbd. V. No. 25. 1868. Pl. 1.

651. Die Französischen Militär-Expeditionen in Marokko 1866 & 1870. Von A. Petermann. Scale, 1 : 2,000,000. Size, 27.8 × 24.8 cm.

XVIII. 1872. Pl. 18.
 652. Die Oasen von Taflet. Nach G. Rohlfs gez. von B. Hassenstein. Scale, 1 : 1,000,000. Size, 6.3 × 14.9 cm. XVIII. 1872. Pl. 18.

653. Oase Figig [Marokko]. Scale, 1 : 500,000. Size, 3.1 × 3.1 cm. XVIII. 1872. Pl. 18.

654. Dr. Georg Schweinfurth's Aufnahme der Grossen Oase. Scale, 1 : 300,000. Size, 19.8 × 53 cm. XXI. 1875. Pl. 19.

655. Projektirte Eisenbahn nach Central-Afrika. Von A. Petermann. Tripolitaniern und Fessan. Scale, 1 : 7,500,000. Size, 19.2 × 14.2 cm.

XXIII. 1877. Pl. 3.
 656. Schauplatz von Gerhard Rohlfs' neuem Afrikanischen Forschungs-Unternehmen. Von A. Petermann. Scale, 1 : 12,500,000. Size, 19.1 × 24.8 cm.

XXIV. 1878. Pl. 3.
 657. Dr. G. Nachtigal's Reise von Tripolis bis

Tümmo 18. Februar bis 27. Juni 1869. Von Dr. G. Nachtigal. Scale, 1 : 2,000,000. Size, 20 × 53 cm.

XXIV. 1878. Pl. 4.
 658. Übersichtskarte von G. Rohlfs' Expedition in Tripolitaniern, Barka und der Oasengruppe von Kufra Dec. 1878 bis Oct. 1879. Entw. u. gez. von B. Hassenstein. Scale, 1 : 4,000,000. Size, 29.6 × 24.9 cm. XXVI. 1880. Pl. 21.

659. Specielle Darstellung der Reiseroute von Sokna bis Djalo. Construit von Dr. G. Rohlfs. Scale, 1 : 2,000,000. Size, 29.6 × 7.1 cm.

XXVI. 1880. Pl. 21.
 660. Übersichtsskizze der Reise von Dr. O. Lenz nach Timbuktu, 1879-80. Scale, 1 : 12,500,000. Size, 15.7 × 20.9 cm. XXVII. 1881. P. 188.

661. Cyrenaica. Routen der Expeditionen der Società d'Esplorazione Commerciale in Africa unter Cap. M. Camperio & Comm. Haimann März & April 1881. Construit & gezeichnet von Carlo Pedrona. Scale, 1 : 1,200,000. Size, 23.4 × 17.5 cm.

XXVII. 1881. Pl. 15.
 662. [Kartenskizze von Cyrenaica und benachbarten Ländern zur Übersicht der Routen der Expeditionen der Società d'Esplorazione Commerciale in Africa.] Scale, 1 : 6,000,000. Size, 8.8 × 8.4 cm.

XXVII. 1881. Pl. 15.

4. Sahara and Sudan.

(Excepting East Sudan.)

663. Skizze zur Übersicht der Reise-Routen Dr. H. Barth's in Nord- u. Central-Afrika, und des Gebiets seiner Forschungen überhaupt. Gezeichnet von A. Petermann. Scale, 1 : 32,000,000. Size, 16.5 × 12.2 cm. [I.] 1855. P. 307.

664. Skizze der Umgebungen von Sokoto und Wurno, aufgenommen von Dr. H. Barth, im April 1853. Gezeichnet von A. Petermann. Scale, 1 : 250,000. Size, 19 × 12.7 cm. [I.] 1855. Pl. 1.

665. Die Provinzen Kebbi und Zanzara nach den Reisen und Forschungen von Dr. H. Barth, März und April 1853. Gezeichnet von A. Petermann. Scale, 1 : 3,300,000. Size, 19 × 11.7 cm.

[I.] 1855. Pl. 1.
 666. Dr. H. Barth's Route von Sokoto nach Timbuktu, Mai-September 1853. Gezeichnet von A. Petermann. Scale, 1 : 10,000,000. Size, 11.7 × 10.1 cm.

[I.] 1855. Pl. 2.
 667. Dr. H. Barth's Route von Saraijamo nach Timbuktu im September 1853. Gezeichnet von A. Petermann. Scale, 1 : 500,000. Size, 19 × 24.5 cm.

[I.] 1855. Pl. 2.
 668. Plan von Timbuktu. Scale, 1 : 32,000. Size, ca. 5 × 4.5 cm. [I.] 1855. Pl. 2.

669. Map of part of Northern Afrika showing the Routes of the Expedition under Messrs Richardson, Barth, Overweg & Vogel in the years 1850 and 1853. Constructed by Augustus Petermann, F.R.G.S. Scale, 1 : 2,100,000. Size, 35.4 × 50.9 cm.

[I.] 1855. Pl. 19.
 670. Plan der Stadt Agades [in Air, Central-Afrika]. Scale, [1 : 26,000]. Size, 9.3 × 6.4 cm.

[III.] 1857. P. 255.
 671. Dr. Barth's Reisen südlich vom Tsad-See in den Jahren 1851 & 1852. Gez. v. A. Petermann. Scale, 1 : 5,000,000. Size, 8.6 × 9.3 cm.

[III.] 1857. Pl. 7.
 672. Dr. Vogel's Reise nach Musgo & Tubori März-Juni 1854. Scale, 1 : 5,000,000. Size, 4.5 × 9.3 cm. [III.] 1857. Pl. 7.

673. Karte vom Tuareg-Lande Air oder Asben. Nach Dr. Barth's Beobachtungen entw. u. gez. von

A. Petermann. (Aus Dr. Barth's Reisewerk, Bd. I.) Scale, 1:1,000,000. Size, 19.3 × 24.8 cm.

[III.] 1857. Pl. 11.
674. Carton des ganzen Gebietes der Imoscharh oder Tuareg. Scale, 1:30,000,000. Size, 7.3 × 8.5 cm.

[III.] 1857. Pl. 11.
675. Dr. Barth's Karte von Central-Afrika. Entworfen und gezeichnet von A. Petermann. Scale, 1:6,000,000. Size, 43.1 × 25.2 cm.

[IV.] 1858. Pl. 19.
676. Karte des westlichen Theils der Grossen Wüste von Afrika. Meist nach Dr. Barth's Forschungen in Timbuktu 1853-4, und zur Übersicht der Reise von Léopold Panet im J. 1850. Von A. Petermann. Scale, 1:6,000,000. Size, 24.5 × 41.7 cm.

[V.] 1859. Pl. 6.
677. Originalkarte von H. Duveyrier's Reise im Grenzgebiet der Französischen Sahara. Von Ghardäja nach El Goleä, August-September 1859. Nach den astron. Bestimmungen und Handzeichnungen des Reisenden. Von A. Petermann. Scale, 1:1,000,000. Size, 19 × 24.6 cm.

[VI.] 1860. Pl. 3.
678. Karte der Sahara von Ghardäja bis Tuät. Nach eignen Beobachtungen und denen der Eingebornen zusammengestellt von H. Duveyrier (Ghardäja 1859). Scale, 1:4,000,000. Size, 13 × 15.5 cm.

[VI.] 1860. Pl. 3.
679. Karte von Inner-Afrika nach dem Stande der geographischen Kenntniss in den Jahren 1861 bis 1863. Nach den Quellen bearbeitet von A. Petermann und B. Hassenstein. Blatt 3, Tebu-Land; Bl. 5, Wadai und Bagirmi; Bl. 6, Dar-Fur und Kordofan. Scale, 1:2,000,000. Size, ea., 52.3 × 42.6 cm. Ergbd. II. Nos. 7, 8, 10. 1862. Pl. 3, 5, 6.

680. Plan von Wara [Tebu-Land]. Nach Mohammed-el-Tunsi, Fresnel u. Barth. Approximate scale, 1:20,000. Size, 10.4 × 9.2 cm.

Ergbd. II. No. 8. 1862. Pl. 3.
681. Umgegend von Wara [Tebu-Land]. Nach Mohammed-el-Tunsi. 1810. Scale, ca. 1:500,000. Size, 7.5 × 5 cm. Ergbd. II. No. 8. 1862. Pl. 3.

682. Die Flussgebiete des Binuë, Alt-Calabar & Camerün in West-Afrika. Mit besonderer Berücksichtigung der ethnograph. Verhältnisse bearbeitet von B. Hassenstein. Scale, 1:2,500,000. Size, 43.3 × 24.6 cm.

[IX.] 1863. Pl. 6.
683. Karte der Central-Sahara, des nördlichen Tuareg-Landes, zur Übersicht der Forschungen von Henry Duveyrier 1859-1861. Mit Benutzung der Reisen & Erkundungen von: Richardson, Barth, Vogel, Dickson, Prax, Fresnel, Cherbonneau, Bonnemain, Bu-Derba, de Colomb, Colonieu u. Burin &c. Von A. Petermann. Scale, 1:7,500,000. Size, 19 × 24.6 cm.

[IX.] 1863. Pl. 12.
684. Originalkarte von Gerhard Rohlfs' Reise durch die Oasen von Tuat & Tidikelt und den nördlichen Theil des Tuareg-Gebietes (Nord-Afrika). Nach dem Tagebuch des Reisenden entworfen, und mit Benutzung der Karten & Erkundungen von Duveyrier, Colonieu & Burin, de Colomb u. A. gezeichnet von B. Hassenstein. Scale, 1:2,000,000. Size, 52.4 × 24.6 cm.

[XI.] 1865. Pl. 14.
685. Übersicht von Gerhard Rohlfs' Reisen in Afrika, 1861-1867. Von A. Petermann. Scale, 1:14,000,000. Size, 23 × 32.2 cm.

[XIII.] 1867. Pl. 12.
686. Original-Karte zur Übersicht von Gerhard Rohlfs' Reise durch die Grosse Wüste (Sahara) von Mursuk nach Kuka, März-Juli 1866, und seiner Forschungen über Tibesti. Von A. Petermann. Scale, 1:3,500,000. Size, 24.5 × 43.7 cm.

Ergbd. V. No. 25. 1868. Pl. 2.
687. Originalkarte von Dr. G. Nachtigal's Reise

nach Tibesti oder Tu, Juni-September 1869. Nach einer Handzeichnung von Dr. G. Nachtigal. Scale, 1:3,000,000. Size, 24.9 × 30.4 cm.

XVI. 1870. Pl. 15.
688. Plan von Kuka. Nach Dr. H. Barth's Aufnahme gez. von A. Petermann. Scale, 1:40,000. Size, ca. 16 × 9.5 cm.

XVII. 1871. P. 68.
689. Spezialkarte der Länder im Süden des Tsad-See's, zur Übersicht der Reisen von G. Rohlfs 1866 und aller übrigen Europäischen Reisenden in diesem Gebiete. Von A. Petermann. Scale, 1:800,000. Size, 62.5 × 51.6 cm.

Ergbd. VII. No. 34. 1872. Pl. 1.
690. Originalkarte von G. Rohlfs' Reise von Gudjba nach Lagos, Februar 1866 bis Mai 1867, nebst Übersicht aller übrigen Europäischen Reisen in diesem Gebiet. Von A. Petermann. Scale, 1:2,500,000. Size, 42.6 × 24.7 cm.

Ergbd. VII. No. 34. 1872. Pl. 2.
691. Originalkarte der Erforschung der Libyschen Wüste durch die Expedition von Dr. G. Rohlfs Dezember & Januar 1873-4. Nach den Arbeiten von Dr. Rohlfs, Dr. Jordan & Dr. Zittel zusammengestellt von A. Petermann. Scale, 1:1,400,000. Size, 31.1 × 24.3 cm.

XX. 1874. Pl. 9.
692. Originalkarte von Wadai und Dar-Fur und den Ländern im Süden davon. Von Dr. G. Nachtigal. Scale, 1:4,500,000. Size, 42.7 × 24.7 cm.

XXI. 1875. Pl. 15.
693. Schauplatz von Gerhard Rohlfs' neuem Afrikanischen Forschungs-Unternehmen. Von A. Petermann. Scale, 1:12,500,000. Size, 19.1 × 24.8 cm.

XXIV. 1878. Pl. 3.
694. Originalkarte von Dar-Fur. Nach den Positionsbestimmungen und Recognoscirungen des Ägyptischen Generalstabs, 1876 u. 1877, entworfen von Oberst A. M. Mason-Bey, 1879. Scale, 1:2,500,000. Size, 24.6 × 19.3 cm.

XXVI. 1880. Pl. 18.
695. Übersichtsskizze der Reise von Dr. O. Lenz nach Timbuktu, 1879-80. Scale, 1:12,500,000. Size, 15.7 × 20.9 cm.

XXVII. 1881. P. 188.
696. Übersicht von Ed. Rob. Flegel's Reisen im Nigergebiet. 1880-1881. Scale, 1:6,000,000. Size, 8.5 × 14 cm.

5. Upper Guinea and Senegambia.

697. Karte von den Strömen Kowära und Binuë (oder Tschadda) nach den Aufnahmen von Dr. W. B. Baillie, R. N. und D. J. May, R. N. auf dem Englischen Explorations-Dampfsboot "Plejade" Juli-November 1854. Mit Benutzung anderer Quellen gezeichnet von A. Petermann. Scale, 1:2,500,000. Size, 41.5 × 24.4 cm.

[I.] 1855. Pl. 18.
698. Karte der Länder am untern Senegal, von G. Lejean, 1858. Scale, 1:925,000. Size, 24.7 × 19.2 cm.

[IV.] 1858. Pl. 17.
699. Dr. Barth's Karte von Central-Afrika. Entworfen und gezeichnet von A. Petermann. Scale, 1:6,000,000. Size, 43.1 × 25.2 cm.

[IV.] 1858. Pl. 19.
700. Die Flussgebiete des Binuë, Alt-Calabar & Camerün in West-Afrika. Mit besonderer Berücksichtigung der ethnograph. Verhältnisse bearbeitet von B. Hassenstein. Scale, 1:2,500,000. Size, 43.3 × 24.6 cm.

[IX.] 1863. Pl. 6.
701. Das südwestliche Ewe-Sprachgebiet nach Original-Zeichnungen der Missionäre Ch. Hornberger und W. Brutschin und den neuesten Englischen Aufnahmen der Küste und des Volta Flusses. Scale, 1:650,000. Size, 24.6 × 41.4 cm.

[XIII.] 1867. Pl. 3

702. Originalkarte von G. Rohlf's Reise von Gadjah nach Lagos, Februar 1866 bis Mai 1867, nebst Übersicht aller übrigen Europäischen Reisen in diesem Gebiet. Von A. Petermann. Scale, 1: 2,500,000. Size, 42.6 × 24.7 cm.

Ergbd. VII. No. 34. 1872. Pl. 2.
703. Spezialkarte der Länder an der Goldküste im Innern bis Kumassi, Englisch-Afrikanischer Kriegsschauplatz in 1874. Von A. Petermann. Scale, 1: 800,000. Size, 65.4 × 24.7 cm.

XX. 1874. Pl. 2.
704. [Nebenkarte von Cap Verde und Umgebung.] Scale, 1: 5,000,000. Size, 3.9 × 3.8 cm.

XX. 1874. Pl. 14.
705. Die Goldfelder von Wassa. Entworfen von B. Hassenstein. Scale, 1: 750,000. Size, 8.5 × 15.9 cm.

XXVI. 1880. P. 177.
706. Originalkarte des mittleren Benué-Stromes, aufgenommen von E. R. Flegel, Mitglied der Church Missionary Society's Expedition, unter Mr. J. H. Ashcroft, Juli bis Sept. 1879. Scale, 1: 300,000. Size, 42.4 × 24.8 cm.

XXVI. 1880. Pl. 7.
707. Skizze zur vergleichenden Übersicht der neuen Aufnahme und der bisherigen Darstellung [des mittleren Benué-Stromes]. Vergl. Geogr. Mitth. 1863, Tafel 6. Scale, 1: 2,500,000. Size, 11.5 × 3.4 cm.

XXVI. 1880. Pl. 7.
708. Verminck's Expedition nach den Niger-Quellen unter Zweifel u. Moustier, 1879. Nach der Originalkarte der Reisenden und anderen Quellen gezeichnet von B. Hassenstein. Scale, 1: 2,000,000. Size, 32.2 × 25.1 cm.

XXVI. 1880. Pl. 12.
709. Übersicht von Ed. Rob. Flegel's Reisen im Nigergebiete 1880-1881. Scale, 1: 6,000,000. Size, 8.5 × 14 cm.

XXVII. 1881. P. 474.

6. Equatorial Africa.

(The region lying, approximately, between Lat. 10° N. and Lat. 10° S.)

710. Skizze einer Karte eines Theiles von Ost- u. Central-Afrika mit Angabe der wahrscheinlichen Lage u. Ausdehnung des See's von Uniamesi, nebst Bezeichnung der Grenzen u. Wohnsitze der verschiedenen Völker, sowie der Caravanen-Strassen nach dem Innern. Gestützt auf die Angaben zahlreicher Eingebornen und muhamedanischer Reisenden, und zusammengetragen von Jakob Erhardt u. Johann Rebmann . . . Nach J. Erhardt's Original und der Engl. Küsten Aufnahme gezeichnet von A. Petermann. Scale, 1: 5,000,000. Size, 43.1 × 33.8 cm.

[II.] 1856. Pl. 1.

711. Vergleichende Skizzen im gleichen Maassstabe, als Versuch zur Feststellung der wahren Lage und Ausdehnung des See's von Uniamesi. Scale, [ca. 1: 2,300,000.]

a. Erhardt's Vorstellung. Size, 7 × 6.5 cm.

Ä. Petermann's Vorstellung. Size, 7.2 × 6.5 cm.

[II.] 1856. Pl. 1.

712. Skizze zur Übersicht der geographischen Verbreitung der Völker Ost-Afrika's. Von A. Petermann. Scale, 1: 35,000,000. Size, 7.5 × 9.9 cm.

[IV.] 1858. Pl. 18.

713. Originalkarte von Burton's u. Speke's Entdeckungen in Inner-Afrika 1857 u. 1858. Nebst Angabe aller übrigen im Bereich der Karte von Europäischen Reisenden zurückgelegten Routen. Mit Benutzung einer Originalzeichnung von Capt. J. H. Speke, von A. Petermann. Scale, 1: 7,000,000. Size, 19.2 × 24.4 cm.

[V.] 1859. Pl. 15.

714. Burton's & Speke's Route nach Fuga 6-20 Februar 1857. (Aus Journ. R. G. S.) Scale, 1: 1,000,000. Size, 9.2 × 4.5 cm.

[V.] 1859. Pl. 15.

715. Karte von Speke's Reisen in Inner-Afrika März, Juli u. August 1858. Nach Speke's Tagebuch von A. Petermann. Scale, 1: 1,500,000. Size, 19.2 × 24.3 cm.

[V.] 1859. Pl. 20.

716. [Karte von Tanganyika oder Ujiji See zur Übersicht der Reisen von Speke.] Scale, [ca. 1: 2,300,000.] Size, 7.9 × 7.6 cm.

[V.] 1859. Pl. 20.

717. Karte der Somäl-Küste und des Golf's von Aden. Zur Übersicht der Ergebnisse von Th. von Heuglin's Reise, September bis December 1857. Mit Benutzung der grossen trigonometrischen Aufnahmen von Carless, Barker, Christopher, Haines & Andern, von A. Petermann. Scale, 1: 2,500,000. Size, 43 × 24.6 cm.

[VI.] 1860. Pl. 18.

718. Berbera u. Umgegend. Scale, 1: 500,000. Size, 5.8 × 5 cm.

[VI.] 1860. Pl. 18.

719. Der Gabün und seine Zuflüsse. Nach den Aufnahmen der Französischen Schiffslieutenants Floix [Ploix] 1849, Braouezec, Dumemil & Serval 1858 bis 1861. Scale, 1: 500,000. Size, 23.9 × 24.4 cm.

[VIII.] 1862. Pl. 8.

720. Die Gabün-Länder im äquatorialen Afrika. Nach den Englischen Küsten-Aufnahmen, 1826-1838, den Französischen Fluss-Vermessungen im Gabün-Gebiet, 1849-1861, den korrigirten Routen Du Chaillu's, 1856-1859, und mehreren anderen Quellen. Von A. Petermann. Scale, 1: 2,000,000. Size, 18.5 × 24.5 cm.

[VIII.] 1862. Pl. 8.

721. Sechs kritisch-historische Kärtchen der Gabün-Länder. Scale, 1: 8,000,000.

1. Bowdich, (North-Western Africa). 1831. Size, 7.3 × 5.6 cm.

2. Cooley, (Inner-Africa laid open). 1852. Size, 7.3 × 5.6 cm.

3. Kiepert, (Neuer Hand-Atlas). 1861. Size, 7.8 × 5.6 cm.

4. Du Chaillu, (Explorations & adventures). 1862. Size, 7.8 × 5.6 cm.

5. Barth, Berliner Zeitschrift, Nov. 1861. Size, (mean), 4.4 × 5.6 cm.

6. Petermann, 1862. Size, 7.7 × 5.6 cm.

[VIII.] 1862. Pl. 8.

722. Karte von Kongo & Angola. Von A. Petermann. Scale, 1: 3,000,000. Size, 19.2 × 24.6 cm.

[VIII.] 1862. Pl. 17.

723. Karte von Inner-Afrika nach dem Stande der geographischen Kenntniss in den Jahren 1861 bis 1863. Nach den Quellen bearbeitet von A. Petermann und B. Hassenstein. Blatt 7, Dar-Banda; Bl. 8, Gondokoro; Bl. 9, Kongo; Bl. 10, Unyamwesi. Scale, 1: 2,000,000. Size, each, 52.3 × 42.6 cm.

Ergbd. II. Nos. 7, 10, 11. 1862-3. Pl. 7-10.

724. Das Nil-Quellgebiet; zur Übersicht der Entdeckungen und Erforschungen von Capt^e Speke & Grant, 1861-62. Hauptsächlich nach einer von Capt^e Speke gezeichneten und vom 26. Februar 1863 datirten Karte. Von A. Petermann. Scale, 1: 6,000,000. Size, 19.1 × 24.6 cm.

Die Alpen-See'n im Maassstabe 1: 6,000,000 [zum Vergleich]. Size, 6.6 × 4.3 cm.

[IX.] 1863. Pl. 10.

725. Karte der Gabün-Länder im äquatorialen Afrika. Zur Übersicht der Aufnahme des Ogowai durch Serval 1862. Von A. Petermann. Scale, 1: 2,000,000. Size, 19.1 × 17.8 cm.

[IX.] 1863. Pl. 15.

726. Der Ogowai nach den Aufnahmen des franz. Schiffslieutenants Serval, 1862. Scale, 1: 1,000,000. Size, 19.1 × 6.3 cm.

[IX.] 1863. Pl. 15.

727. Der Schneeberg Kilima-Ndjaru in Ost-Afrika, aufgenommen von Karl von der Decken, 1861. Scale, 1 : 500,000. Size, 9.1 X 9.5 cm.

[X.] 1864. Pl. 4.

728. Das Gebiet der Schneeberge Kilima-Ndscharo und Kenia in Ost-Afrika. Nach den Reiseberichten der Missionäre Krapf & Rebmann, 1844-53, und auf Grund der Forschungen K. van der Decken's, 1861 u. 1862, von Burton, Speke (1857), Owen (1824) u. A. Gezeichnet von B. Hassenstein. Scale, 1 : 1,500,000. Size, 24.6 X 42.6 cm.

a. Usambala oder Usambara. Nach Burton, Speke & Krapf entworfen von B. H. Scale, 1 : 750,000. Size, 13.7 X 9.3 cm.

b. Mombasa und Umgebung. Scale, 1 : 750,000. Size, 6.4 X 5.1 cm.

[X.] 1864. Pl. 16.

729. Übersichtsskizze der Entdeckungen von S. W. Baker in Central-Afrika. Scale, 1 : 14,000,000. Size, 7.7 X 10 cm.

[XI.] 1865. P. 385.

730. Originalkarte des westlichen Theiles des oberen Nil-Gebietes. Zur Übersicht der Reisen und Forschungen von Th. von Heuglin 1862-63- & 64. Nebst rektificirter Darstellung der Ergebnisse aller bisherigen Reisen in demselben Gebiete. Gezeichnet von B. Hassenstein. Scale, 1 : 2,000,000. Size, 42.8 X 52.1 cm. Ergbd. III. No. 15. 1865.

731. John Petherick's Reisen am oberen Nil 1858-1863. (Copie der Karte im Journ. R. G. S. vol. 35). Scale, 1 : 2,000,000. Size, 24.1 X 43.4 cm.

[XII.] 1866. Pl. 10.

732. Originalkarte des Gebietes der südlichen Galla & Waboni nebst den angrenzenden Somali-Ländern. Nach seinen Reisen in 1866 & 1867 von R. Brenner. Scale, 1 : 2,500,000. Size, 33 X 48.8 cm.

[XIV.] 1868. Pl. 18.

733. Das Nil-Quellgebiet und die äquatorialen See'n Afrikas, nebst Übersicht der Reisen von Carlo Piaggia, 1860-1865, und der neuesten Nachrichten von Ambroise & Jules Poncet 1868. Von A. Petermann. Scale, 1 : 8,000,000. Size, 19.2 X 24.6 cm.

[XIV.] 1868. Pl. 20.

734. Originalkarte der Portugiesischen Reisen in Inner-Afrika seit 1798. Nach den Portugiesischen Quellenwerken zusammengestellt. Nebst Skizze von Livingstone's Reise 1866-1869. Von A. Petermann. Scale, 1 : 4,500,000. Size, 30.6 X 24.8 cm.

XVI. 1870. Pl. 9.

735. Chronologische Übersicht von Livingstone's Reisen in Süd-Afrika 1840-1869. Von A. Petermann. Scale, 1 : 12,500,000. Size, 30.6 X 25.1 cm.

XVI. 1870. Pl. 10.

736. Originalkarte von Dr. G. Schweinfurth's Reisen im obern Nilgebiete 1869 & 1870. Nach Dr. Schweinfurth's eigenen Karten-Zeichnungen & mit Zugrundelegung der astronomischen Bestimmungen von J. Petherick. Von A. Petermann. Scale, 1 : 1,080,000. Size, 24.8 X 64.7 cm.

XVII. 1871. Pl. 7.

737. Übersichtskarte des westlichen oberes Nil-Gebietes. Scale, 1 : 3,000,000. Size, 8.9 X 9.9 cm.

XVII. 1871. Pl. 7.

738. Die neuesten Aufnahmen und Forschungen in West-Äquatorial-Afrika unter Du Chaillu, Genoyer, Walker, Aymes &c. Von A. Petermann. Scale, 1 : 2,000,000. Size, 30.6 X 24.6 cm.

XVIII. 1872. Pl. 2.

739. Der Fernand Vaz [West-Äquatorial-Afrika] ... nach du Chaillu. Scale, 1 : 2,000,000. Size, 3.8 X 4 cm.

XVIII. 1872. Pl. 2.

740. Originalkarte von Dar-Fertit und den anstossenden Bongo, Djur- & Dinka-Territorien entworfen

und gezeichnet von Dr. G. Schweinfurth. Scale, 1 : 1,000,000. Size, 40.3 X 24.6 cm.

XVIII. 1872. Pl. 15.

741. Livingstone's Reisen in Inner-Afrika 1866-72 und Stanley's Reise zum Tanganjika 1871-2, nebst Übersicht der Höhen-Verhältnisse. Von A. Petermann. Scale, 1 : 5,000,000. Size, 42.5 X 24.7 cm.

XIX. 1873. Pl. 2.

742. Kartenskizze zur Übersicht von Pascha Baker's Eroberungszug in die obern Nilländer 1870-2. Von A. Petermann. Scale, 1 : 2,100,000. Size, 19.1 X 24.8 cm.

XIX. 1873. Pl. 19.

743. Die Deutsche Afrikanische Expedition. Originalkarte von West-Afrika zwischen Muni und Koanza nach dem Standpunkte der Kenntniss zu Anfang 1875. Der Deutschen Gesellschaft zur Erforschung Äquatorial-Afrika's und ihren Sendboten gewidmet von A. Petermann. Scale, 1 : 3,000,000. Size, 36.2 X 49.1 cm.

XXI. 1875. Pl. 1.

744. Skizze des von der Deutschen Afrikanischen Gesellschaft zu erforschenden Gebietes. Von A. Petermann. Scale, 1 : 25,000,000. Size, 11.6 X 12.5 cm.

XXI. 1875. Pl. 1.

745. Livingstone's Reisen in Inner-Afrika 1866-1873. Nach der Englischen Ausgabe seiner Journale von A. Petermann. Scale, 1 : 2,500,000. Size, 42.8 X 52.7 cm.

XXI. 1875. Pl. 5.

746. Lieut. V. L. Cameron's Aufnahme des südlichen Theiles des Tanganjika See's, 1874. Reduktion der von der Royal Geogr. Society London publicirten Karte. Von A. Petermann. Scale, 1 : 1,250,000. Size, 19.8 X 52.9 cm.

XXI. 1875. Pl. 10.

747. Originalkarte der Gebiete des obern Nil. Übersicht sämmtlicher Reisen bis 1875. Von A. Petermann. Scale, 1 : 2,100,000. Size, 24.7 X 31.2 cm.

XXI. 1875. Pl. 22.

748. Henry M. Stanley's Erforschung & Aufnahme des Ukerewe See's (Victoria Nijansa) 1875. Von A. Petermann. Scale, 1 : 2,500,000. Size, 19.2 X 24.9 cm.

XXI. 1875. Pl. 23.

749. Die Resultate der Deutschen Afrikanischen Expedition in West-Afrika 1873-1875. Zusammenge stellt von A. Petermann. Scale, 1 : 1,500,000. Size, 19.2 X 24.8 cm.

XXII. 1876. Pl. 3.

750. Lieut. V. L. Cameron's Reise durch Afrika vom Tanganjika See nach Loanda, 1874-1875. Nach der Karte der R. G. S. London von A. Petermann. Scale, 1 : 4,800,000. Size, 42.8 X 24.6 cm.

XXII. 1876. Pl. 7.

751. Standpunkt der Erforschung von Central- und Süd-Afrika bis September 1876, besonders der Reisen Cameron's, der Deutschen Loango-Expⁿ und der See-Aufnahmen von Stanley (Ukerewe), Gessi (Mwutan), Young (Njassa). Von A. Petermann. Scale, 1 : 12,500,000. Size, 31.2 X 24.3 cm.

XXII. 1876. Pl. 20.

752. Originalkarte von G. A. Hagenmacher's Reise im Somali-Lande März & April 1874. Von A. Petermann. Scale, 1 : 1,000,000. Size, 19.4 X 24.5 cm.

Ergbd. X. No. 47. 1876.

753. Aufnahme des Untern Congo und seiner Delta-Verzweigungen von Medleycott & Flood 1875. Reduktion von A. Petermann. Scale, 1 : 150,000. Size, 42.6 X 24.8 cm.

XXIII. 1877. Pl. 16.

754. Standpunkt der Erforschung von Äquatorial-Afrika, 1877. Nebst roher vorläufiger Skizze von Stanley's Entdeckung des Kongo, 1876-7. Von A. Petermann. Scale, 1 : 12,500,000. Size, 31.1 X 24.8 cm.

XXIII. 1877. Pl. 22.

755. Reduktion von H. M. Stanley's Originalkarte vom Flussgebiet des Congo, d. d. Loanda, 5. Sept. 1877. Scale, 1 : 7,500,000. Size, 31.2 X 24.7 cm.

XXIII. 1877. Pl. 23.

756. Der Weisse Nil zwischen 6 & 100 nördlicher Breite und der Untere Sobát auf Grundlage der astronomischen Bestimmungen von Speke, S. W. Baker, Petherick, Pruyssenaere, J. A. Baker, sowie der Flussaufnahmen von Werne, Lejean, Heuglin, Steudner, Marno, gezeichnet von K. Zöppritz. Scale, 1:2,000,000. Size, 15.5 X 19 cm.

Ergbd. XI. No. 50. 1877.

757. Der untere Ogowe zur Übersicht der Aufnahme von Savorgnan de Brazza 1876-7. Von A. Petermann. Scale, 1:2,000,000. Size, 30.8 X 24.7 cm.

XXIV. 1878. Pl. 7.

758. Der Fernand Vaz [an dem untere Ogowe] nach du Chaillu. Scale, 1:2,000,000. Size, 3.9 X 4.1 cm.

XXIV. 1878. Pl. 7.

759. Karte des Gebietes zwischen den Nilquellen See'n zur Übersicht der Reise Dr. Emin Effendi's 1877. Von A. Petermann. Scale, 1:1,400,000. Size, 31.1 X 24.5 cm.

XXIV. 1878. Pl. 21.

760. P. Savorgnan de Brazza's Reise auf dem oberen Ogowe und zu den westlichen Zuflüssen des Congo, 1876 bis 1878, [mit einer Nebenkarte zur Übersicht]. Scale, 1:3,000,000 [Nebenkarte: 1:13,000,000]. Size, 17.5 X 12.3 cm.

XXV. 1879. P. 104.

761. Dr. W. Junker's Reisen in Nordost- und Central-Afrika. Blatt No. 1: Karte der Routen in den Mudirien Ladó und Makaraká, sowie in das Quellgebiet des Jeí und Uélla, Januar 1877 bis Februar 1878. Mit Benutzung einer Routenconstruction von W. H. Fritzsche entw. u. gez. von B. Hassenstein. Scale, 1:750,000. Size, 51.4 X 42 cm.

XXV. 1879. Pl. 23.

762. Dr. W. Junker's Reisen in Nordost- u. Central-Afrika. Blatt No. 2: Karte der Routen in den Mudirien Rohl u. Bahr-el-Ghasál, sowie Übersicht der wichtigsten neueren Reisen in den ägyptischen Äquatorial-Provinzen. Entworfen u. gezeichnet von B. Hassenstein. Scale, 1:2,500,000. Size, 24.4 X 30.9 cm.

XXVI. 1880. Pl. 4.

763. Skizze von Dr. W. Junker's Reisen [in dem südlichen Niamniam-Lande] Juni bis Dec. 1880. Scale, 1:4,000,000. Size, 8.4 X 11.2 cm.

XXVII. 1881. P. 252.

764. Originalkarte des Äquatorialen Ost-Afrika zwischen Mombasa und Nijansa. Mit Zugrundelegung der Tana-Fluss-Aufnahme nach den eigenen Erkundigungen über die Handelswege des Innern construiert und gezeichnet von Clemeas Denhardt. Scale, 1:2,000,000. Size, 45.2 X 36.3 cm.

XXVII. 1881. Pl. 1.

765. Originalkarte einer Reiseroute von Ladó bis Dara, nach der Itinerar-Aufnahme von R. W. Felkin & Rev^d C. T. Wilson, M.A., Sept. bis Dec. 1879, construiert u. gezeichnet von B. Hassenstein. Scale, 1:2,000,000. Size, 20 X 53.1 cm.

XXVII. 1881. Pl. 4.

7. Southern Africa.

766. Karte zur Übersicht der wichtigsten Entdeckungen im Innern Süd-Afrika's in den Jahren 1849-1853. A. Petermann. Scale, 1:1,400,000. Size, 25.5 X 24.9 cm.

[I.] 1855. Pl. 5.

767. Natal und die Freistaaten der Boers gezeichnet von Hermann Berghaus. Scale, 1:5,000,000. Size, 20.3 X 24.8 cm.

[I.] 1855. Pl. 20.

768. Karte vom Innern Süd-Afrika's enthaltend Dr. Livingstone's Reiseroute nach Loanda 1853-4, und die Forschungen über Lobale und das Stromgebiet des Congo von W. Desborough Cooley, Esq. Nach den Karten-Skizzen und Beschreibungen von

W. D. Cooley gezeichnet von A. Petermann. Scale, 1:8,000,000. Size, 24.4 X 18.8 cm.

[I.] 1855. Pl. 21.

769. Der Ngami-See. . . . Nach Anders[s]on gez. von A. Petermann. Scale, 1:1,000,000. Size, 8.5 X 15.6 cm.

Der Boden-See (zum Vergleich) Scale, 1:1,000,000. Size, 8.5 X 3.8 cm.

[II.] 1856. P. 103.

770. Karte zur Übersicht der Reise Joaquim Rodriguez Graça's nach Muata ya Nvo in Inner-Africa, 1843-1846. Von W. Desborough Cooley, Esq. Gez. v. A. Petermann. Scale, 1:5,000,000. Size, 24.5 X 19 cm.

[II.] 1856. Pl. 17.

771. Die Hydrographie Inner-Afrika's nach Livingston's Angaben, 1855 u. 1856.

a. Livingston's Karte publicirt im Mai 1855. (Vide: Journal R. Geogr. Soc., vol. 24.) Scale, [ca. 1:6,000,000]. Size, 9.1 X 3.6 cm.

b. Livingston's Karte publicirt im Mai (?) 1856. (Vide: Journal R. Geogr. Soc., vol. 25.) Scale, [ca. 1:6,000,000]. Size, 9.1 X 2.3 cm.

[II.] 1856. Pl. 17.

772. Karte der Kolonie Natal nach officiellm und zum Theil unpublicirtem Material gez. von A. Petermann. Scale, 1:1,550,000. Size, 19 X 24.5 cm.

[II.] 1856. Pl. 19.

773. Plan von Port Natal. Scale, 1:360,000. Size, 4.8 X 6 cm.

[II.] 1856. Pl. 19.

774. Der Zambesi-Strom nach den Forschungen Dr. Livingstone's in den J. 1851-1856. Gez. von A. Petermann. Scale, 1:12,500,000. Size, 18.4 X 10.1 cm.

[III.] 1857. Pl. 3.

775. Karte von Süd-Afrika zur Übersicht der neuesten Entdeckungen von Livingstone, Moffat, Galton, Anders[s]on Bain's geol. Aufnahme, Forschungen in Benguela &c. &c. Von A. Petermann. Scale, 1:6,300,000. Size, 43 X 53 cm.

[IV.] 1858. Pl. 7.

776. Physikalische Skizze von Süd-Afrika. (Botanische, zoologische, ethnographische Grenzen &c. &c.) Scale, 1:26,000,000. Size, 10.7 X 13.7 cm.

[IV.] 1858. Pl. 7.

777. Vergleichende Übersicht der neuesten Vorstellungen über die Geographie des Innern Süd-Afrika's. Scale, 1:33,000,000.

a. H. Kiepert, Nov. 1855. Size, 9.9 X 6.4 cm.

b. J. McQueen, März 1857. Size, 9.9 X 5.8 cm.

c. D. Livingstone, Nov. 1857. Size, 9.9 X 6.5 cm.

[IV.] 1858. Pl. 7.

778. Karte zur Übersicht der Reise von H. Hahn und Rath im südwestlichen Afrika, Mai-September 1857. Von A. Petermann. Scale, 1:3,000,000. Size, 24.5 X 19.3 cm.

[V.] 1859. Pl. 11.

779. Kartenskizze über Livingstone's Entdeckung des Schirwa-See's April 1859. Von A. Petermann. Scale, 1:6,300,000. Size, (mean) 19 X 10.2 cm.

[VI.] 1860. Pl. 8.

780. Originalkarte von Ladislaus Magyar's Reisen in Central-Afrika 1850, 1851 u. 1855. Von A. Petermann. Scale, 1:4,000,000. Size, 24.5 X 19 cm.

[VI.] 1860. Pl. 10.

781. Natal und das Zulu-Land. Besonders nach den Aufnahmen von Cpt. Grantham und den Beobachtungen der Missionare. Bearbeitet von Dr. R. Grundemann. Scale, 1:1,500,000. Size, 21.8 X 31.6 cm.

[XIII.] 1867. Pl. 8.

782. Süd-Afrika & Madagaskar. Karl Mauch's Reise im Innern von Süd-Afrika, 1866-67, & Übersicht der geographischen Entdeckungen bis 1867. Von A. Petermann. Scale, 1:12,500,000. Size, 40.8 X 33.8 cm.

[XIII.] 1867. Pl. 10a.

783. Das Capland nebst den Süd-Afrikanischen Freistaaten und dem Gebiet der Hottentotten & Kaffern. Von A. Petermann. Scale, 1 : 5,000,000. Size, 45 × 24.8 cm. [XIV.] 1868. Pl. 2.

784. Die Capstadt und Umgehung. Scale, 1 : 150,000. Size, 7.5 × 10.7 cm. [XIV.] 1868. Pl. 2.

785. Übersicht der trigonometrischen & nautischen Aufnahmen im Kaplande bis 1867. Von A. Petermann. Scale, 1 : 1,800,000. Size, 63.4 × 24.7 cm. [XIV.] 1868. Pl. 3.

786. Original Map of the Transvaal or South-African Republik. From surveys and observations by Survr Genl M. Forssman, C. Mauch, F. Hammar, Survr J. Brooks and other official documents; combined with the results of their own explorations by F. Jeppe and A. Merensky, Potchefstroom & Botsabelo, 1868. Reconstructed and augmented with data from various exploring travellers &c. by A. Petermann. Scale, 1 : 1,850,000. Size, 58 × 44.5 cm.

a. Plan of Rustenburg. Scale wanting. Size, 5.3 × 6.1 cm.

b. Plan of Pretoria. Scale wanting. Size, 4.5 × 6.1 cm.

c. Plan of Potchefstroom. Scale wanting. Size, 8.5 × 5 cm.

Ergbd. V. No. 24. 1868.

787. Reduced Map of the Transvaal Republic and the surrounding regions by A. Petermann. Scale, 1 : 5,000,000. Size, 19.2 × 24 cm.

Ergbd. V. No. 24. 1868.

788. Originalkarte von C. Mauch's Reisen im Innern von Süd-Afrika zwischen Potchefstroom und Zambesi 1865-1869. Nebst Übersicht aller anderen Forschungen. Von A. Petermann. Scale, 1 : 2,000,000. Size, 43 × 52.3 cm. XVI. 1870. Pl. 1.

789. Chronologische Übersicht von Livingstone's Reisen in Süd-Afrika 1840-1869. Von A. Petermann. Scale, 1 : 12,500,000. Size, 30.6 × 25.1 cm. XVI. 1870. Pl. 10.

790. Natal & Orange-Fluss-Freistaat &c. mit den Diamanten-Feldern. Zur Übersicht der Aufnahmen von Adolf Hübner, Karl Mauch, Eduard Mohr &c. von A. Petermann. Scale, 1 : 1,400,000. Size, 48.7 × 33 cm. XVII. 1871. Pl. 11.

791. Originalkarte der neuesten Entdeckungsreisen in Süd-Afrika von Mauch, Mohr, Hübner, Baines u. A. Nebst Übersicht sämtlicher Forschungen in der Transvaal-Republik & Mosilikatse's Reich. Von A. Petermann. Scale, 1 : 2,000,000. Size, 27.5 × 52.4 cm. XVIII. 1872. Pl. 21.

792. Capland. Scale, 1 : 25,000,000. Size, 7.4 × 5.5 cm. XX. 1874. Pl. 14.

793. Capstadt. Scale, 1 : 1,500,000. Size, 4.2 × 5.5 cm. XX. 1874. Pl. 14.

794. Originalkarte von Carl Mauch's Reise von Simbabwe nach Senna, 1871-2. Von A. Petermann. Scale, 1 : 2,000,000. Size, 31 × 24.5 cm.

Ergbd. VIII. No. 37. 1874.

795. Livingstone's Reisen in Inner-Afrika 1866-1873. Nach der Englischen Ausgabe seiner Journale von A. Petermann. Scale, 1 : 2,500,000. Size, 42.8 × 52.7 cm. XXI. 1875. Pl. 5.

796. Livingstone's Reise von der Küste bis zum N'jassa See 1866. Scale, 1 : 4,000,000. Size, 19.2 × 9.9 cm. XXI. 1875. Pl. 5.

797. Lieut. V. L. Cameron's Aufnahme des südlichen Theiles des Tanganjika See's, 1874. Reduktion der von der Royal Geogr. Society, London, publicierten Karte. Von A. Petermann. Scale, 1 : 1,250,000. Size, 19.8 × 52.9 cm. XXI. 1875. Pl. 10.

798. Lieut. V. L. Cameron's Reise durch Afrika vom Tanganjika See nach Loanda, 1874-75. Nach der Karte der R. G. S. London von A. Petermann. Scale, 1 : 4,800,000. Size, 42.8 × 24.6 cm. XXII. 1876. Pl. 7.

799. Standpunkt der Erforschung von Central- und Süd-Afrika bis September 1876, besonders der Reisen Cameron's, der Deutschen Loango-Exp^a und der See-Aufnahmen von Stanley (Ukerewe), Gessi (Mwutan), Young (Njassa). Von A. Petermann. Scale, 1 : 12,500,000. Size, 31.2 × 24.3 cm. XXII. 1876. Pl. 20.

800. Die neue englisch-portugiesische Grenze bei der Delagoa-Bai. Scale, 1 : 3,000,000. Size, 5.7 × 6.2 cm. Ergbd. XI. No. 49. 1876. Pl. 1 [2].

801. Originalkarte des Herero & Kaoko-Landes nach allen bisherigen Aufnahmen & Reisen einschliesslich der neuesten Beobachtungen & Angaben der Rheinischen Missionäre, besonders der Herren J. Böhm & F. Bernsmann. Von A. Petermann. Scale, 1 : 2,200,000. Size, 41.7 × 24.6 cm. XXIV. 1878. Pl. 17.

802. H. B. Cotterill's Reise vom Nyassa See nach Ugogo 1877. Scale, 1 : 1,800,000. Size, 19.2 × 24.7 cm. XXIV. 1878. Pl. 19.

803. Provisorische Skizze der Serpa Pinto'schen Expedition durch Süd-Afrika. Scale, 1 : 12,500,000. Size, 15.2 × 10 cm. XXV. 1879. P. 298.

804. Provisorische Karte zur Übersicht der portugiesischen Expedition unter B. Capello und R. Ivens von Nov. 1877 bis Oct. 1879. Gez. v. B. Hassenstein. Scale, 1 : 4,500,000. Size, 19.3 × 24.8 cm. XXVI. 1880. Pl. 16.

805. Ost-Griqua- und Pondo-Land nach C. Henkel's Karte und anderen Quellen. Scale, 1 : 1,000,000. Size, 19.3 × 24.4 cm. XXVII. 1881. Pl. 10.

806. Mündung des Umzimvubu (St. John's R.). Scale, 1 : 250,000. Size, 3.7 × 4 cm. XXVII. 1881. Pl. 10.

8. Islands.

807. Süd-Afrika & Madagaskar. Karl Mauch's Reise im Innern von Süd-Afrika, 1866-67, & Übersicht der geographischen Entdeckungen bis 1867. Von A. Petermann. Scale, 1 : 12,500,000. Size, 40.8 × 33.8 cm. [XIII.] 1867. Pl. 10 a.

808. Originalkarte der Canarischen Inseln Gomera, Hierro, Canaria. Nach den Messungen von K. v. Fritsch den Englischen Küsten-Aufnahmen adjustirt. Red. & arrangirt von A. Petermann. Scale, 1 : 220,000. Size: Gomera, 16.4 × 12.1 cm.; Hierro (Ferro), 16.4 × 12.3 cm.; Canaria, 26 × 24.4 cm. Ergbd. V. No. 22. 1867.

V. AUSTRALASIA.

2. AUSTRALIA.

1. General.

809. Karte von J. Mac Douall Stuart's Reise durch das Innere von Australien, 6. März bis 25. August 1860. Construit nach des Reisenden Tagebuch. Von A. Petermann. Scale, 1 : 2,500,000. Size, 19.8 × 52.5 cm. [VII.] 1861. Pl. 8.

810. Übersichtskarte vom Innern Australiens. (Aus Stieler's Handatlas.) Scale, 1 : 16,000,000. Size, 8.7 × 20.5 cm. [VII.] 1861. Pl. 8.

811. Karte von J. Mc D. Stuart's zweiter Reise im Innern von Australien, April bis Juli 1861. Von A. Petermann. Scale, 1 : 2,500,000. Size, 24.5 × 19 cm. [VIII.] 1862. Pl. 4.

812. Übersicht der Routen Stuart's und Burke's [im Innern von Australien] 1860 & 1861. Scale, 1: 16,000,000. Size, 8,5 X 9,4 cm.

[VIII.] 1862. Pl. 4.

813. Provisorische Karte der grossen Expedition unter Burke durch den Australischen Continent 1860 und 1861. Von A. Petermann. Scale, 1: 5,000,000. Size, 18,9 X 24,5 cm.

[VIII.] 1862. Pl. 5.

814. Karte eines Theil's von J. Mc. D. Stuart's dritter Reise in Australien: vom Endpunkt der zweiten Reise (1861) bis zur Nordküste, April bis Juli, 1862. Von A. Petermann. Nach dem Tagebuch gezeichnet von B. Hassenstein. Scale, 1: 2,500,000. Size, 19 X 24,4 cm.

[X.] 1864. Pl. 1.

815. Kartenskizze von Süd-Ost-Australien zur Erläuterung der Methode planimetrischer Berechnungen. Von Ernst Debes. Scale, 1: 8,000,000. Size, 19,1 X 24,6 cm.

[XI.] 1865. Pl. 12.

816. Das See'n-Gebiet (Lake Distrikt) und die Steinige Wüste (Great Stony Desert) im Innern von Australien. Nach den Reisejournalen von Sturt 1845; Wills 1860; Mc Kinlay 1861-62; & Howitt 1862. Constr. v. B. Hassenstein, dir. v. A. Petermann. Scale, 1: 1,000,000. Size, 24,7 X 43,1 cm.

[XIII.] 1867. Pl. 4.

817. Mc. Intyre's Reise in Central-Australien 1865 & 1866. Von A. Petermann. Scale, 1: 5,000,000. Size, 19,6 X 24,6 cm.

[XIII.] 1867. Pl. 18.

818. Australien. Übersicht des Standpunktes der geographischen Kenntniss von Australien, 1868, & Dr. Neumayer's Projekt zur wissenschaftlichen Erforschung Central-Australiens. Von A. Petermann. Scale, 1: 10,000,000. Size, 45 X 33,8 cm.

[XIV.] 1868. Pl. 21.

819. Specialkarte von Australien in 8 Blättern. Nach originalen & officiellen Quellen von A. Petermann 1871. Scale, 1: 3,500,000.

a. Nördliche Hälfte. Size: Pl. 1, 59,4 X 24,7; Pl. 2, 59,2 X 24,4; Pl. 3, 59,5 X 24,4; Pl. 4, 59,7 X 24,3 cm.

Ergbd. VI. No. 29. 1869-71. Pl. 1-4.

β. Südliche Hälfte. Size: Pl. 1, 59,5 X 24,3; Pl. 2, 59,6 X 24,4; Pl. 3, 59,5 X 24,3; Pl. 4, 59,7 X 24,5 cm.

Ergbd. VII. No. 30. 1871. Pl. 1-4.

820. J. M. Gilmore's Reise in Central-Australien, Jan.-Okt. 1871 und Übersicht des Standpunktes der geographischen Kenntniss jener Gebiete in 1872. Von A. Petermann. Scale, 1: 1,750,000. Size, 42,5 X 24,7 cm.

XVIII. 1872. Pl. 22.

821. Der grosse Australische Überland-Telegraph, nebst Übersicht des ganzen Telegraphen-Netzes in Australien und Standpunkt der geographischen Kenntniss in 1873. Von A. Petermann. Scale, 1: 10,000,000. Size, 24,6 X 32,2 cm.

XIX. 1873. Pl. 6.

822. Originalkarte von E. Giles' Entdeckungsreise in Central-Australien 1872, und Übersicht des Standpunktes der geographischen Kenntniss jener Gebiete. Von A. Petermann. Scale, 1: 1,500,000. Size, 40,7 X 24,7 cm.

XIX. 1873. Pl. 10.

823. Süd-Ost-Australien im Maassstabe von 1: 5,000,000. Zur Übersicht der neuesten Entdeckungen & Aufnahmen bis 1873, und der Bevölkerungsverhältnisse. Von A. Petermann. Scale, 1: 5,000,000. Size, 34 X 41,7 cm.

XIX. 1873. Pl. 22.

824. Vorläufige Skizze von Gosse's & Warburton's Reisen durch West-Australien, 1873-4 & Standpunkt der geographischen Kenntniss dieses Gebietes in 1874. Von A. Petermann. Scale, 1: 10,000,000. Size, 24,7 X 32,3 cm.

XX. 1874. Pl. 8.

825. W. C. Gosse's Reise in Central-Australien 26. Februar-19. Dez. 1873. Von A. Petermann. (Aus A. Petermann's Specialkarte von Australien in 9 Blatt, 2 Ausgabe 1874.) Scale, 1: 3,500,000. Size, 40,1 X 25 cm.

XX. 1874. Pl. 19.

826. Die neuesten Entdeckungsreisen im Innern von Australien von Warburton, Giles, Forrest, April 1873-Sept. 1874. Von A. Petermann. Scale, 1: 3,500,000. Size, 65,8 X 25 cm.

XXII. 1876. Pl. 2.

827. Thomas Elder's Expedition durch Inner-Australien von Beltana im Osten bis Perth im Westen, ausgeführt durch E. Giles, Mai-Nov. 1875. Von A. Petermann. Scale, 1: 3,500,000. Size, 65,4 X 25,3 cm.

XXII. 1876. Pl. 10.

828. Thomas Elder's Expedition durch Inner-Australien vom Murchison im Westen, bis zum Neales im Osten, ausgeführt durch E. Giles, April-Aug. 1876. Von A. Petermann. Scale, 1: 3,500,000. Size, 66 X 25,3 cm.

XXIII. 1877. Pl. 11.

829. Karte von Australien zur Übersicht der neuesten Reisen ins Innere, sowie der Eisenbahnen und Telegraphen. Scale, 1: 10,000,000. Size, 46,1 X 36,7 cm.

XXVI. 1880. Pl. 11.

2. West Australia.

830. Provisorische Karte von Frank Gregory's Reisen in Northwest-Australien April bis Juni 1858 & Mai bis Oktober 1861. Nach den Vorläufigen Reiseberichten konstruirt. A. Petermann. Scale, 1: 4,000,000. Size, 24,3 X 19,1 cm.

[VIII.] 1862. Pl. 11.

831. Karte der Reise von C. & A. Dempster, Clarkson & Harper im Innern von West-Australien, Juli & August 1861. Nach dem Tagebuch konstruirt von B. Hassenstein. Scale, 1: 1,000,000. Size, 42,7 X 24,5 cm.

[IX.] 1863. Pl. 4.

832. Karte von H. M. Lefroy's Expedition im Innern von West-Australien Mai bis Juli 1863. Gezeichnet von B. Hassenstein. Scale, 1: 1,500,000. Size, 38,8 X 24,5 cm.

[X.] 1864. Pl. 10.

833. John Forrest's Reise im Innern von West-Australien April-Aug. 1869. Nebst Übersicht der Entdeckungen bis 1869. Von A. Petermann. Scale, 1: 2,000,000. Size, 43,1 X 24,6 cm.

XV. 1869. Pl. 23.

834. Vorläufige Skizze von Gosse's & Warburton's Reisen durch West-Australien, 1873-4 & Standpunkt der geographischen Kenntniss dieses Gebietes in 1874. Von A. Petermann. Scale, 1: 10,000,000. Size, 24,7 X 32,3 cm.

XX. 1874. Pl. 8.

835. West-Australien. Von A. Petermann. Scale, 1: 5,000,000. Size, 18,4 X 25,1 cm.

XXI. 1875. Pl. 18.

836. Die neuesten Entdeckungsreisen im Innern von Australien von Warburton, Giles, Forrest, April 1873-Sept. 1874. Von A. Petermann. Scale, 1: 3,500,000. Size, 65,8 X 25 cm.

XXII. 1876. Pl. 2.

837. Thomas Elder's Expedition durch Inner-Australien von Beltana im Osten bis Perth im Westen, ausgeführt durch E. Giles, Mai-Nov. 1875. Von A. Petermann. Scale, 1: 3,500,000. Size, 65,4 X 25,3 cm.

XXII. 1876. Pl. 10.

838. Thomas Elder's Expedition durch Inner-Australien vom Murchison im Westen, bis zum Neales im Osten, ausgeführt durch E. Giles, April-Aug. 1876. Von A. Petermann. Scale, 1: 3,500,000. Size, 66 X 25,3 cm.

XXIII. 1877. Pl. 11.

839. Northwest-Australien und Timor Meer nach Alex. Forrest's Forschungen 1879 und den neuesten nautischen Vermessungen. Scale, 1: 5,000,000. Size, 24,8 X 19,3 cm.

XXVII. 1881. Pl. 6.

3. North Australia.

840. Karte eines Theil's von J. Mc D. Stuart's dritter Reise in Australien: vom Endpunkt der zweiten Reise (1861) bis zur Nordküste, April bis Juli,

1862. Von A. Petermann. Nach dem Tagebuch gezeichnet von B. Hassenstein. Scale, 1: 2,500,000. Size, 19 X 24.4 cm. [X.] 1864. Pl. 1.

841. Karte der Reiserouten von W. Landsborough, J. Mc Kinlay u. A. in Nord-Australien, (s.w. vom Carpentaria-Golf). Von A. Petermann. Nach den Tagebüchern gezeichnet von B. Hassenstein. Scale, 1: 1,500,000. Size, 19 X 24.5 cm. [X.] 1864. Pl. 7.

842. Neue Aufnahmen in Nord-Australien. Nach Ringwood & Mc Minn von A. Petermann. Scale, 1: 3,500,000. Size, 19.1 X 24.8 cm. XXIV. 1878. Pl. 11.

843. Nordwest-Australien und Timor Meer nach Alex. Forrest's Forschungen 1879 und den neuesten nautischen Vermessungen. Scale, 1: 5,000,000. Size, 24.8 X 19.3 cm. XXVII. 1881. Pl. 6.

4. Alexandra Land.

844. Karte von J. Mac Douall Stuart's Reise durch das Innere von Australien, 6. März bis 25. August 1860. Construiert nach des Reisenden Tagebuch. Von A. Petermann. Scale, 1: 2,500,000. Size, 19.8 X 52.5 cm. [VII.] 1861. Pl. 8.

845. Karte von J. Mc D. Stuart's zweiter Reise im Innern von Australien, April bis Juli 1861. Von A. Petermann. Scale, 1: 2,500,000. Size, 24.5 X 19 cm. [VIII.] 1862. Pl. 4.

846. Übersicht der Routen Stuart's und Burke's [im Innern von Australien] 1860 & 1861. Scale, 1: 16,000,000. Size, 8.5 X 9.4 cm. [VIII.] 1862. Pl. 4.

847. Karte eines Theil's von J. Mc D. Stuart's dritter Reise in Australien: vom Endpunkt der zweiten Reise (1861) bis zur Nordküste, April bis Juli, 1862. Von A. Petermann. Nach dem Tagebuch gezeichnet von B. Hassenstein. Scale, 1: 2,500,000. Size, 19 X 24.4 cm. [X.] 1864. Pl. 1.

848. Originalkarte von E. Giles' Entdeckungsreise in Central-Australien 1872, und Übersicht des Standpunktes der geographischen Kenntniss jener Gebiete. Von A. Petermann. Scale, 1: 1,500,000. Size, 40.7 X 24.7 cm. XIX. 1873. Pl. 10.

849. Vorläufige Skizze von Gosse's & Warburton's Reisen durch West-Australien, 1873-4 & Standpunkt der geographischen Kenntniss dieses Gebietes in 1874. Von A. Petermann. Scale, 1: 10,000,000. Size, 24.7 X 32.3 cm. XX. 1874. Pl. 8.

850. W. C. Gosse's Reise in Central-Australien 26. Februar-19. Dez. 1873. Von A. Petermann. (Aus A. Petermann's Specialkarte von Australien in 9 Blatt, 2 Ausgabe 1874.) Scale, 1: 3,500,000. Size, 40.1 X 25 cm. XX. 1874. Pl. 19.

5. South Australia.

851. Skizze des Lake Gairdner, des neu entdeckten See's in Australien. Scale, 1: 3,000,000. Size, 13.6 X 8.9 cm. [IV.] 1858. P. 373.

852. Karte der neuesten Entdeckungen im Innern Australiens. Gezeichnet von A. Petermann. Scale, 1: 1,000,000. Size, 42.2 X 24.5 cm.

Der Boden-See in demselben Maasstabe (zum Vergleich). Size, 6.2 X 3.9 cm.

[V.] 1859. Pl. 7.

853. Die Entdeckungen im Innern von Süd-Australien von 1840-1860. Meist nach den Reiseberichten u. Itinerarbeschreibungen provisorisch entworfen von A. Petermann. Scale, 1: 2,500,000. Size, 24.6 X 19.1 cm. [VI.] 1860. Pl. 13.

854. Karte von J. Mac Douall Stuart's Reise durch das Innere von Australien, 6. März bis 25. August 1860. Construiert nach des Reisenden Tagebuch. Von A. Petermann. Scale, 1: 2,500,000. Size, 19.8 X 52.5 cm. [VII.] 1861. Pl. 8.

855. Lake Eyre und sein südwestliches Flussgebiet in Süd-Australien. Meist nach den Tagebüchern der zweiten und dritten Forschungsreise von John Mc Douall Stuart, 1859 & 1860. Von A. Petermann. Scale, 1: 1,500,000. Size, 19.1 X 24.5 cm. [IX.] 1863. Pl. 11.

856. Das See'n-Gebiet (Lake Distrikt) und die Steinige Wüste (Great Stony Desert) im Innern von Australien. Nach den Reisejournalen von Sturt 1845; Wills 1860; Mc Kinlay 1861-62; & Howitt 1862. Constr. v. B. Hassenstein, dir. v. A. Petermann. Scale, 1: 1,000,000. Size, 24.7 X 43.1 cm. [XIII.] 1867. Pl. 4.

857. Warburton's Entdeckung des Nordendes von Lake Eyre 1866. Scale, 1: 1,500,000. Size, 19.3 X 24.4 cm. [XIII.] 1867. Pl. 16.

858. Entdeckungen von Warburton, Walder, Kramer & Meissel im Cooper-Delta (Central-Australien) 1866 & 1867. Von A. Petermann. Scale, 1: 1,000,000. Size, 19 X 24.8 cm. [XIII.] 1867. Pl. 17.

859. Übersicht der neuesten Reisen & Aufnahmen im Seegebiet von Central-Australien. Von A. Petermann. Scale, 1: 1,000,000. Size, 24.8 X 19.1 cm. XVI. 1870. Pl. 5.

860. J. W. Lewis' Aufnahmen im Norden und Osten des Eyre See's 1874-5. Von A. Petermann. (Aus A. Petermann's Specialkarte von Australien in 9 Blatt, 2 Ausgabe 1875.) Scale, 1: 3,500,000. Size, 19.4 X 24.8 cm. XXI. 1875. Pl. 21.

861. Die neuesten Entdeckungsreisen im Innern von Australien von Warburton, Giles, Forrest, April 1873-Sept. 1874. Von A. Petermann. Scale, 1: 3,500,000. Size, 65.8 X 25 cm. XXII. 1876. Pl. 2.

862. Thomas Elder's Expedition durch Inner-Australien von Beltana im Osten bis Perth im Westen, ausgeführt durch E. Giles, Mai-Nov. 1875. Von A. Petermann. Scale, 1: 3,500,000. Size, 65.4 X 25.3 cm. XXII. 1876. Pl. 10.

863. Thomas Elder's Expedition durch Inner-Australien vom Murchison im Westen, bis zum Neales im Osten, ausgeführt durch E. Giles, April-Aug. 1876. Von A. Petermann. Scale, 1: 3,500,000. Size, 66 X 25.3 cm. XXIII. 1877. Pl. 11.

6. Queensland.

864. Karte der Colonie Queensland in Australien. Nach officiellen Quellen, von A. Petermann. Scale, 1: 5,000,000. Size, 24.8 X 19.3 cm.

[Kartenskizze der Colonie Queensland zur Übersicht.] Scale, [ca. 1: 30,200,000.] Size, 8.6 X 7.7 cm.

[VII.] 1861. Pl. 3.

865. Karte der Reiserouten von W. Landsborough, J. Mc Kinlay u. A. in Nord-Australien, (s. w. vom Carpentaria-Golf). Von A. Petermann. Nach den Tagebüchern gezeichnet von B. Hassenstein. Scale, 1: 1,500,000. Size, 19 X 24.5 cm. [X.] 1864. Pl. 7.

866. Mc Intyre's Reise in Central-Australien 1865 & 1866. Von A. Petermann. Scale, 1: 5,000,000. Size, 19.6 X 24.6 cm. [XIII.] 1867. Pl. 18.

867. J. M. Gilmore's Reise in Central-Australien, Jan.-Okt. 1871 und Übersicht des Standpunktes der geographischen Kenntniss jener Gebiete in 1872. Von A. Petermann. Scale, 1: 1,750,000. Size, 42.5 X 24.7 cm. XVIII. 1872. Pl. 22.

868. Süd-Ost-Australien im Maasstabe von 1: 5,000,000. Zur Übersicht der neuesten Entdeckun-

gen & Aufnahmen bis 1873, und der Bevölkerungsverhältnisse. Von A. Petermann. Scale, 1 : 5,000,000. Size, 34 × 41.7 cm. XIX. 1873. Pl. 22.

7. New South Wales.

869. Kartenskizze von Süd-Ost-Australien zur Erläuterung der Methode planimeterischer Berechnungen. Von Ernst Debes. Scale, 1 : 8,000,000. Size, 19.1 × 24.6 cm. [XI.] 1865. Pl. 12.

870. Spezialkarte eines Theiles von New South Wales. Nach den auf Kataster Aufnahmen beruhenden County Maps der Surveyor Generals Office in Sydney. Entw. von A. Petermann. Scale, 1 : 1,500,000. Size, 20 × 42.8 cm. [XII.] 1866. Pl. 13.

871. Sydney und Port Jackson. Scale, 1 : 150,000. Size, 11.9 × 7.5 cm. [XIV.] 1868. Pl. 21.

872. Süd-Ost-Australien im Maassstabe von 1 : 5,000,000. Zur Übersicht der neuesten Entdeckungen & Aufnahmen bis 1873, und der Bevölkerungsverhältnisse. Von A. Petermann. Scale, 1 : 5,000,000. Size, 34 × 41.7 cm. XIX. 1873. Pl. 22.

873. Sydney und Port Jackson. Scale, 1 : 150,000. Size, 12 × 7.6 cm. XX. 1874. Pl. 8.

8. Victoria.

874. Die Provinz Victoria : politische Eintheilung, Goldfelder. Scale, 1 : 8,500,000. Size, 14.5 × 7.2 cm. [I.] 1855. P. 263.

875. Kartenskizze von Süd-Ost-Australien zur Erläuterung der Methode planimetrischer Berechnungen. Von Ernst Debes. Scale, 1 : 8,000,000. Size, 19.1 × 24.6 cm. [XI.] 1865. Pl. 12.

876. Geologische Karte der Provinz Victoria. Nach den offiziellen Aufnahmen unter der Direction von Alfred R. C. Selwyn. Reduzirt von A. Petermann. Scale, 1 : 2,000,000. Size, 43 × 24.6 cm. [XI.] 1865. Pl. 15.

877. Orographische Karte der Provinz Victoria zur Übersicht der Höhenmessungen von Dr. G. Neumayer construirt und zusammengestellt von A. Petermann. Scale, 1 : 2,000,000. Size, 43.1 × 24.7 cm. XVII. 1871. Pl. 21.

878. Süd-Ost-Australien im Maassstabe von 1 : 5,000,000. Zur Übersicht der neuesten Entdeckungen & Aufnahmen bis 1873, und der Bevölkerungsverhältnisse. Von A. Petermann. Scale, 1 : 5,000,000. Size, 34 × 41.7 cm. XIX. 1873. Pl. 22.

b. ISLANDS.

9. Tasmania.

879. West-Tasmania nach Charles Gould u. A., von A. Petermann. Scale, 1 : 500,000. Size, 18.9 × 24.3 cm. [XI.] 1865. Pl. 3.

880. Tasmania früher genannt Van Diemen's Land. Von A. Petermann. Scale, 1 : 5,000,000. Size, 9.9 × 9 cm. [XI.] 1865. Pl. 3.

881. Tasmania früher genannt Van Diemen's Land. Von A. Petermann. Scale, 1 : 5,000,000. Size, 10 × 16.2 cm. XXII. 1876. Pl. 8.

10. New Guinea.

882. Neu-Guinea und benachbarte Inseln. Aus H. Berghaus' Karte. Equatorial scale, 1 : 20,000,000. Size, 19.3 × 24.6 cm.

Europäische Länder in demselben Maassstabe zum Vergleich der Grösse von Neu Guinea etc. Scale, 1 : 20,000,000. Size, 12.8 × 7.7 cm. XV. 1869. Pl. 20.

883. Das Süd-Ost-Ende von Neu-Guinea. (Aus A. Petermann's Spezialkarte von Australien in 9 Blatt, 2. Ausg. 1874). Scale, 1 : 3,500,000. Size, 19.2 × 8.3 cm. XX. 1874. Pl. 5.

884. Das Süd-Ost-Ende von Neu-Guinea nach der Aufnahme von Moresby & Mourilyan, April 1873. Scale, 1 : 800,000. Size, 19.2 × 16.5 cm. XX. 1874. Pl. 5.

885. Macfarlane's Erforschung des Flusses Mackassa (Baxter) im südl. Neu-Guinea. Von A. Petermann. Scale, 1 : 800,000. Size, 19.1 × 24.7 cm. XXII. 1876. Pl. 6.

886. L. M. D'Albertis' Erforschung und Aufnahme des Fly River in Neu-Guinea im Dampfboot "Neva," 1876. Von A. Petermann. Scale, 1 : 1,800,000. Size, 19.2 × 24.4 cm. XXIV. 1878. Pl. 23.

887. Skizze von Neu-Guinea zur Übersicht des Fly River. Scale, 1 : 20,000,000. Size, 12.1 × 6.5 cm. XXIV. 1878. Pl. 23.

11. New Zealand and Chatham Island.

888. Der Isthmus von Auckland mit seinen erloschenen Vulkankegeln von Dr. Ferdinand von Hochstetter 1859. Die Zeichnung und geographische Grundlage (hauptsächlich nach den Aufnahmen von Stokes und Drury) von A. Petermann. Scale, 1 : 120,000. Size, 19.1 × 24.5 cm. [VIII.] 1862. Pl. 6.

889. Rotomahana od. der Warme See mit seinen heissen Quellen, aufgenommen von Dr. Ferdinand von Hochstetter 1859. Scale, 1 : 12,000. Size, 19.2 × 24.6 cm. [VIII.] 1862. Pl. 10.

890. Neu-Seeland (New Zealand) im Maassstabe 1 : 5,000,000. Von A. Petermann. Scale, 1 : 5,000,000. Size, 19 × 32.5 cm. [VIII.] 1862. Pl. 14.

891. Geologische Übersichtskarte der Provinz Nelson (Süd Insel). Nach den Aufnahmen von Dr. Ferdinand von Hochstetter 1859, und Julius Haast 1860. Scale, 1 : 1,300,000. Size, 19 × 24.5 cm. [IX.] 1863. Pl. 1.

892. Originalkarte zur Übersicht von Dr. Julius Haast's Reise durch die Südl. Alpen Neu Seelands, 1863. Nach des Reisenden Handzeichnungen und den Englischen Küstenaufnahmen von A. Petermann. Scale, 1 : 700,000. Size, 19 × 24.6 cm. [IX.] 1863. Pl. 13.

893. Auckland I^a. Scale, 1 : 2,000,000. Size, 3.3 × 3.2 cm. [XII.] 1866. Pl. 3.

894. Waiakauri I^a. Scale, 1 : 2,000,000. Size, 4.6 × 5.2 cm. [XII.] 1866. Pl. 3.

895. Neu-Seeland (New Zealand). Von A. Petermann. Scale, 1 : 5,000,000. Size, 22.4 × 33.8 cm. XXII. 1876. Pl. 8.

896. Der Isthmus von Auckland, (der Hauptstadt von Neu-Seeland). Scale, 1 : 500,000. Size, 9.2 × 10.2 cm. XXII. 1876. Pl. 8.

897. Neuseeland mit den neuen Grafschafts- (County) Grenzen. Scale, 1 : 3,000,000. Size, 36 × 48.7 cm. Ergbd. XII. No. 55. 1878. Pl. 1.

VI. POLYNESIA.

1. General.

898. Karte von Polynesien und dem Litoral des Grossen Oceans, zur Übersicht der politischen Verhältnisse im Jahre 1859. Von A. Petermann. Scale, 1 : 110,000,000. Size, 24.2 × 19.2 cm. [V.] 1859. Pl. 9.

899. Polynesien und der Grosse Ocean. Von A. Petermann. Zur ethnographischen Übersicht von Dr. G. Gerland. Scale, 1: 40,000,000. Size, 42.4 × 24.1 cm. XVIII. 1872. Pl. 8.

2. Single Islands and Groups.

900. Karte der Central-Gruppen von Polynesien. Nach den Karten der Britischen Admiralität gez. Von A. Petermann. Scale, 1: 15,500,000. Size, 24.5 × 19.1 cm.

Europäische Inseln [Corsica & Sardinia] zum Vergleich. Scale, 1: 15,500,000. Size, 2.5 × 3.7 cm.

[III.] 1857. Pl. 2.

901. Karte vom Amerikanischen Polynesien &c. Scale, 1: 18,000,000. Size, 24.7 × 19 cm.

[V.] 1859. Pl. 8.

902. Die grösseren der Viti-oder Fiji-Inseln im Maassstabe von 1: 1,500,000. Hauptsächlich nach Wilkes' & Denham's Aufnahmen, 1840 und 1857. Von A. Petermann. Scale, 1: 1,500,000. Size, 24.5 × 19.3 cm. [VII.] 1861. Pl. 4.

903. Die Inseln Rook u. Woodlark im Grossen Ocean. Nach Originalzeichnungen von D. Carlo Salerio & den Engl. Admiraltätskarten von A. Petermann.

a. Übersichtskarte der Inseln östl. v. Neu-Guinea, nach den Engl. Seekarten. Scale, 1: 10,000,000. Size, 10.3 × 8.8 cm.

b. Insel Rook, nach einer Originalzeichnung von D. C. Salerio. Scale, 1: 1,000,000. Size, 8.8 × 8.8 cm.

c. Die Südküste der Insel Woodlark, aufgenommen von Arguimbau und Loring 1858. Scale, 1: 70,000. Size, 19.1 × 8.4 cm.

d. Die Insel Muju oder Woodlark, nach einer Originalzeichnung v. D. C. Salerio, u. den Aufnahmen v. Arguimbau u. Loring 1858. Scale, 1: 1,500,000. Size, 19.1 × 7.4 cm.

[VIII.] 1862. Pl. 12.

904. Die Marquesas I^a. Scale, 1: 3,000,000. Size, 14.3 × 10.6 cm.

[XIII.] 1867. Pl. 2.

a. Uapou (Marchand I.). Scale, 1: 750,000. Size, 3.6 × 5.6 cm.

b. Nukuhiva. Scale, 1: 750,000. Size, 6.6 × 5.6 cm.

c. Ua Uka (Washington I.). Scale, 1: 750,000. Size, 4.2 × 5.6 cm.

d. Hivaoa (La Dominica). Scale, 1: 750,000. Size, 8.5 × 5.8 cm.

e. Fatuhiva (La Madalena). Scale, 1: 750,000. Size, 5.9 × 5.8 cm.

[XIII.] 1867. Pl. 2.

905. Die Viti-oder Fiji-Inseln. Hauptsächlich nach Wilkes' & Denham's Aufnahmen, 1840 und 1857. Von A. Petermann. Scale, 1: 1,500,000. Size, 41.2 × 25.2 cm.

Deutsches Gebiet [von Holstein] im gleichen Maassstabe zur Veranschaulichung der Grössenverhältnisse. Scale, 1: 1,500,000. Size, 5.8 × 6.9 cm.

XV. 1869. Pl. 4.

906. Melanesien (östliche Hälfte.) Nach den bisherigen Aufnahmen und Zahlreichen handschriftlichen Mittheilungen von Dr. R. Grundemann. Scale, 1: 8,000,000. Size, 16.2 × 21.7 cm.

a. Banks Inseln. Scale, 1: 1,000,000. Size, 7.6 × 5.9 cm.

b. Uea od. Halgan. Scale, 1: 1,000,000. Size, 7.6 × 4.6 cm.

c. Lifu oder Chabrol. Scale, 1: 1,000,000. Size, 7.6 × 6.8 cm.

d. Maré od. Nenobé. Scale, 1: 1,000,000. Size, 7.6 × 4.4 cm.

e. Efât od. Viti (Sandwich I.). Scale, 1: 1,000,000. Size, 7.6 × 4.3 cm.

f. Eromanga. Scale, 1: 1,000,000. Size, 7.6 × 4.5 cm.

g. Tanna und Aniwa. Scale, 1: 1,000,000. Size, 7.6 × 6.4 cm.

h. Futuna (Errovan). Scale, 1: 250,000. Size, 3.6 × 2.2 cm.

i. Pt. Resolution [Tanna]. Scale, 1: 200,000. Size, 1.7 × 1.6 cm.

j. Aneityum (Annatom). Scale, 1: 250,000. Size, 7.6 × 6.6 cm.

XVI. 1870. Pl. 19.

907. Karte von Hawaii mit Benutzung der Daten von F. Birgham, red. von A. Petermann. Scale, 1: 1,000,000. Size, 19.1 × 16.6 cm.

XXII. 1876. Pl. 19.

908. Der Krater Mokuaweoweo auf der Spitze des Mauna Loa, entworfen von F. Birgham. Scale, 1: 100,000. Size, 9.6 × 8.1 cm.

XXII. 1876. Pl. 19.

909. Der Krater Kilauea auf dem Abhange des Mauna Loa, entworfen von F. Birgham. Scale, 1: 100,000. Size, 9.6 × 8.1 cm.

XXII. 1876. Pl. 19.

910. Originalkarte von Kauai Niikau &c. [Hawaii-Gruppe]. Mit Benutzung von Daten von F. Birgham von A. Petermann. Scale, 1: 600,000. Size, 24.8 × 19.3 cm. XXIV. 1878. Pl. 15.

911. Delta der Rewa [Viti-Levu]. Scale, 1: 1,500,000. Size, 3.8 × 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 2.

VII. NORTH AMERICA.

1. General.

912. Reisen in Nord-America von C. Scherzer & M. Wagner 1853-1855. Scale, 1: 57,000,000. Size, 7.3 × 9 cm. [II.] 1856. Pl. 14.

2. Alaska.

913. Karte des nordwestlichsten Theils von Nord-Amerika. Von A. Petermann. Scale, 1: 10,000,000. Size, 19.1 × 8.2 cm. [V.] 1859. Pl. 3.

914. Nordwest-Amerika mit dem von Russland an die Verein. Staaten cedirten Territorium Alaska. Mit Benutzung der neuesten Amerikanischen Aufnahmen, besonders der unter W. H. Dall im Coast Survey Office bearbeiteten Karte. Von A. Petermann. Scale, 1: 9,000,000. Size, 43.2 × 24.6 cm.

XV. 1869. Pl. 19.

3. British America.

915. Geologische Karte der Vereinigten Staaten und Britischen Provinzen von Nord-Amerika. Von Jules Marcou, Juli, 1855. Scale, 1: 14,000,000. Size, 39.3 × 24.4 cm. [I.] 1855. Pl. 15.

916. Karte von British-Columbia (früher: New Caledonia), Vancouver I., und dem nördlichen Theil von Washington-Territorium. Nach allen vorhandenen officiellen und authentischen Quellen von A. Petermann. Scale, 1: 4,560,000. Size, 34.6 × 24.8 cm.

Irland (im gleichen Maassstabe zum Vergleich). Size, 7.4 × 9.8 cm.

[IV.] 1858. Pl. 20.

917. Karte des nordwestlichsten Theils von Nord-Amerika. Von A. Petermann. Scale, 1: 10,000,000. Size, 19.1 × 8.2 cm. [V.] 1859. Pl. 3.

918. Karte des Fraser River von A. Petermann. Scale, 1: 1,000,000. Size, 16.3 × 8.5 cm.

[VI.] 1860. P. 49.

919. Karte von J. Palliser's Expedition zur Erforschung der Rocky Mountains in British-Nord-Amerika 1858. Nach den Englischen Parlaments-Akten und anderen officiellen Berichten von A. Petermann. Scale, 1: 3,000,000. Size, 43.2 × 24.6 cm.

[VI.] 1860. Pl. 1.

920. Karte der Red River Expedition in British Nord-Amerika unter Gladman, Hind, Napier, Daw-

son &c 1857 und 1858. Nebst den Routen der Palliser'schen Expedition in demselben Gebiete. Nach den Canadianischen und Englischen Parlaments-Akten von A. Petermann. Scale, 1:3,000,000. Size, 43 × 24.4 cm. [VI.] 1860. Pl. 2.

921. Die Küste von Labrador. Nach den bisherigen Englischen Aufnahmen, den Untersuchungen der Missionäre und handschriftlichen Mittheilungen von Oscar Montgomery Lieber, Geolog der Amerikanischen Expedition nach Aulezavick Insel im J. 1860, früherem Geolog von Süd-Carolina. Von A. Petermann. Scale, 1:4,000,000. Size, 19 × 24.7 cm. [VII.] 1861. Pl. 9.

922. Aulezavick & Umgebung nach den Amerikanischen Aufnahmen. Scale, 1:1,000,000. Size, 4.3 × 5.4 cm. [VII.] 1861. Pl. 9.

923. L. T. Reichel's Aufnahmen der Umgegend von Okak und Nain in Labrador. [Zwei Karten.] Scale, 1:200,000. Size, 19.1 × 24.5 cm. [IX.] 1863. Pl. 5.

924. Originalkarte von Vancouver Insel zur Übersicht der Aufnahmen und Forschungen im Innern durch die officiellen Expeditionen unter dem Befehl von Robert Brown 1863-1866. Mit den Aufnahmen der Engl. Admiralität vereinigt von A. Petermann. Scale, 1:1,300,000. Size, 30.2 × 24.7 cm. [IX.] 1863. Pl. 5.

925. Karte des San Juan- oder Haro-Archipels mit der neuen Grenze nach der schiedsrichterlichen Entscheidung des Deutschen Kaisers am 21. Oktober 1872. Von A. Petermann. Scale, 1:500,000. Size, 19.1 × 24.4 cm. [XV.] 1869. Pl. 1.

Malta im Maassstabe 1:500,000 zum Vergleich. Size, 6.8 × 4.4 cm.

XIX. 1873. Pl. 4.

926. Juan de Fuca-Strasse und Puget Sound. Scale, 1:3,700,000. Size, 5.6 × 6.1 cm. [XIX.] 1873. Pl. 4.

927. Delta des Mackenzie. Scale, 1:3,000,000. Size, 4.2 × 8.4 cm. [XIX.] 1873. Pl. 4.

Ergbd. XII. No. 56. 1878. Pl. 1.
928. Provisorische Karte von Lieut' Schwatka's Expedition zur Aufsuchung der Reste von Sir John Franklin's Expedition auf King William Land 1879 & 1880. Nach H. W. Klutschak's Karte. Mean scale, 1:3,500,000. Size, 18.4 × 24.7 cm. [XXVI.] 1880. Pl. 20.

929. Fischereigebiete und Häfen der atlantischen Küste von Britisch-Nordamerika. Scale, 1:7,500,000. Size, 18 × 14.2 cm.

a. Die Lachs-fischerei in der Bay des Chaleura. Scale, 1:2,500,000. Size, 7.4 × 2.8 cm.

b. Die Lachs-fischerei in der Gaspé Bay. Scale, 1:1,500,000. Size, 2.7 × 3.4 cm.

Ergbd. XIII. No. 60. 1880. P. 63.

930. Geologische Karte der Queen Charlotte Islands nach George M. Dawson's Aufnahmen 1878. Scale, 1:1,100,000. Size, 19.5 × 23.9 cm. [XXVII.] 1881. Pl. 16.

931. Skidegate Inlet, [Queen Charlotte Islands], nach der Vermessungen von J. Richardson 1872 & G. M. Dawson 1878. Scale, 1:350,000. Size, 11.3 × 5.4 cm. [XXVII.] 1881. Pl. 16.

4. United States.

932. Graphische Darstellungen der Bevölkerungsverhältnisse &c. in den Vereinigten Staaten von Nord-Amerika, nach dem neuesten Census (1850). Gezeichnet von A. Petermann.

a. Volks-Dichtigkeit der Weissen und Freien Farbigen im J. 1850. Scale, 1:28,000,000. Size, 18.8 × 11.3 cm. Pl. 10.
b. Volks-Dichtigkeit der Sklaven im J. 1850. Scale, 1:28,000,000. Size, 18.7 × 11.3 cm. Pl. 11.

c. Verbreitung der Indianer im Jahre 1853. Scale, 1:28,000,000. Size, 18.8 × 11.4 cm. Pl. 12.

d. Intellektuelle Kultur. Scale, 1:28,000,000. Size, 9 × 11.3 cm. Pl. 13.

e. Städtische-Bevölkerung. Scale, 1:28,000,000. Size, 9 × 11.3 cm. Pl. 14.

[I.] 1855. Pl. 10-14.

933. Geologische Karte der Vereinigten Staaten und Britischen Provinzen von Nord-Amerika. Von Jules Marcou, Juli 1855. Scale, 1:14,000,000. Size, 39.3 × 24.4 cm. [I.] 1855. Pl. 15.

934. Reisen in Nord-America von C. Scherzer & Wagner 1853-1855. Scale, 1:57,000,000. Size, 7.3 × 9 cm. [II.] 1856. Pl. 14.

935. Die Verbreitung der hauptsächlichsten Kultur-Produkte der Vereinigten Staaten von N. Amerika. Entworfen und gezeichnet von A. Petermann. Scale, 1:38,000,000. Size, 62 × 24.5 cm. [15 maps in one; each, 12.2 × 7.9 cm.] [II.] 1856. Pl. 20-35.

936. Das Gadsden-Gebiet oder Arizona. Gez. von A. Petermann. Scale, 1:1,160,000. Size, 13.4 × 5.4 cm. [III.] 1857. Pl. 17.

937. Die Umgegend von El Paso del Norte. Nach W. H. Emory's Aufnahme gez. von A. Petermann. Scale, 1:500,000. Size, 9.3 × 7.1 cm. [III.] 1857. Pl. 17.

938. Karte zur Übersicht der neuesten Forschungen im Innern Nord-Amerika's bis zum Ostrande der Rocky Mts. gez. v. A. Petermann. Scale, 1:6,600,000. Size, 24.6 × 19.1 cm. [IV.] 1858. Pl. 10.

939. Specialkarte des Grossen Salzsee's von Utah und seiner Umgebungen. Nach Aufnahmen von Frémont und Stansbury gez. von A. Petermann. Scale, 1:870,000. Size, 19.2 × 24.6 cm. [IV.] 1858. Pl. 11.

940. Karte von Britisch-Columbia (früher: New Caledonia), Vancouver I., und dem nördlichen Theil von Washington-Territorium. Nach allen vorhandenen officiellen und authentischen Quellen von A. Petermann. Scale, 1:4,560,000. Size, 34.6 × 24.8 cm. [IV.] 1858. Pl. 10.

Ireland (im gleichen Maassstabe zum Vergleich). Size, 7.4 × 9.8 cm.

941. Karte der Quellgebiete der Flüsse Wichita, Brazos, Colorado &c. im Innern von Nord-Amerika. Hauptsächlich nach den Aufnahmen des Capt. R. B. Marcy, 1854. Von A. Petermann. Scale, 1:2,200,000. Size, 19.1 × 19.3 cm. [V.] 1859. Pl. 2.

942. Karte des nordwestlichsten Theils von Nord-Amerika. Von A. Petermann. Scale, 1:10,000,000. Size, 19.1 × 8.2 cm. [V.] 1859. Pl. 3.

943. Karte des San Juan- oder Haro-Archipels. Nach den Aufnahmen der Engl. Admiralität unter Kellett, Richards &c. 1847, 1858 und 1859. Von A. Petermann. Scale, 1:500,000. Size, 19.1 × 24.6 cm. [V.] 1859. Pl. 19.

944. Geologische Skizze der Black Hills, nach Hayden's Karte von A. Petermann. Scale, 1:6,500,000. Size, 9 × 6.5 cm. [VI.] 1860. P. 53.

945. Physikalische Karte des Alleghany-Systems. Nach allen vorhandenen Messungen und Untersuchungen gezeichnet von Ernest Sandoz. (Das unterseeische Terrain von A. Petermann.) Scale, 1:6,000,000. Size, 40.8 × 24.5 cm. [VI.] 1860. Pl. 12.

946. Karte der White Mountains (Weissen Berge) zur Übersicht der Höhenmessungen von Professor A. Guyot. Scale, 1:600,000. Size, 10.3 × 9.3 cm. [VI.] 1860. Pl. 12.

947. Original Karte der Black Mountains (Schwarzen Berge) zur Übersicht der Höhenmessungen von Professor Arnold Guyot. Scale, 1:600,000. Size, 13.1 × 12.4 cm. [VI.] 1860. Pl. 12.

948. Karte vom westl. Theile der Verein. Staaten N.-Amerika's, zur Übersicht der grossen Eisenbahnbauten nach dem Pacific Ocean, der neuesten Territorien und Aufnahmen. Von Herm. Berghaus. Scale, 1:14,000,000. Size, 24.8 X 19.4 cm.

[XIII] 1867. Pl. 13.
949. Northwest-Amerika mit dem von Russland an die Verein. Staaten cedirten Territorium Alaska. Mit Benutzung der neuesten Amerikanischen Aufnahmen, besonders der unter W. H. Dall im Coast Survey Office bearbeiteten Karte. Von A. Petermann. Scale, 1:9,000,000. Size, 43.2 X 24.6 cm.

XV. 1869. Pl. 19.
950. Geonostische Karte des Alleghany-Systems. Nach den vorhandenen Arbeiten sowie eignen Untersuchungen zusammengestellt von Hermann Credner. Die Physikalische Grundlage von A. Petermann und E. Sandoz. Scale, 1:6,000,000. Size, 41.3 X 24.6 cm.

XVII. 1871. Pl. 3.
951. Die amerikanische Staats-Domäne (National Park) im Quellgebiete des Yellowstone Flusses mit den Geyser-Gebieten. Nach der Aufnahme von F. V. Hayden, 1871. Von A. Petermann. Scale, 1:630,000. Size, 20.1 X 24.7 cm.

XVIII. 1872. Pl. 13.
952. Die Geyser-Gebiete am Fire Hole Fluss. Nach F. V. Hayden, 1871. Scale, 1:65,000. Size, 13 X 24.7 cm.

XVIII. 1872. Pl. 13.
953. Die Heissen Quellen am White Mountain (Gardiner River). Nach F. V. Hayden, 1871. Scale, 1:40,000. Size, 8.5 X 7.3 cm.

XVIII. 1872. Pl. 13.
954. Die Schwefel- & Schlamm-Quellen der Crater Hills. Nach F. V. Hayden, 1871. Scale, 1:10,000. Size, 6.9 X 7.3 cm.

XVIII. 1872. Pl. 13.
955. Karte des San Juan- oder Haro-Archipels mit der neuen Grenze nach der schiedsrichterlichen Entscheidung des Deutschen Kaisers am 21. Oktober 1872. Von A. Petermann. Scale, 1:500,000. Size, 19.1 X 24.4 cm.

Malta im Maassstabe 1:500,000 zum Vergleich. Size, 6.8 X 4.4 cm.

XIX. 1873. Pl. 4.

956. Juan de Fuca-Strasse und Puget Sound. Scale, 1:3,700,000. Size, 5.6 X 6.1 cm.

XIX. 1873. Pl. 4.
957. Erforschung von Nordwest-Texas, durch Dr. O. Loew & A. R. Roessler 1872. Scale, 1:2,500,000. Size, 19.4 X 8.3 cm.

XIX. 1873. Pl. 23.
958. Orientierungskarte. (Aus Petermann's neuer 6 Blatt-Karte der Vereinigten Staaten, in Stieler's Hand-Atlas.) Scale, 1:3,700,000. Size, 19.2 X 16.4 cm.

XIX. 1873. Pl. 23.
959. Lieut. Wheeler's Expedition nach New-Mexico & Arizona, 1873. Aus der zweiten, umgearbeiteten Ausgabe von A. Petermann's Karte der Verein. Staaten in 6 Blatt in A. Stieler's Handatlas. Scale, 1:3,700,000. Size, 19.2 X 25.1 cm.

XX. 1874. Pl. 21.
960. Der östliche Theil der Vereinigten Staaten von Nordamerika [zur Übersicht der Vertheilung der Menschen]. Scale, 1:40,000,000. Size, ca. 8.1 X 6.8 cm.

Ergbd. VIII. No. 35. 1874. Pl. 1.
961. Die Steinkohlenfelder der Vereinigten Staaten von N. A. Nach der Karte von Hitchcock & Blake von A. Petermann. Scale, 1:13,500,000. Size, 19 X 25.1 cm.

XXI. 1875. Pl. 16.
962. Originalkarte der Urwohnsitze der Azteken und verwandten Pueblos in New Mexico. Zusammengestellt von O. Loew. Scale, 1:2,500,000. Size, 19.3 X 24.9 cm.

XXII. 1876. Pl. 12.

963. Lieut. Wheeler's Expedition in California, Nevada, Arizona, 1875. Von A. Petermann. (Aus der neuesten Ausgabe seiner Karte der Verein. Staaten in 6 Bl.) Scale, 1:3,700,000. Size, 30.7 X 23.9 cm.

XXII. 1876. Pl. 18.
964. Der östliche Theil von Nord-Amerika zur Übersicht der Eisenbahnen und Wasserstrassen. Von A. Petermann. Scale, 1:3,700,000. Size, 52.8 X 67 cm.

a. Boston & Umgebung. Scale, 1:1,000,000. Size, 3.9 X 3.8 cm.

b. New York und Umgebung. Scale, 1:1,000,000. Size, 4.7 X 4.8 cm.

c. Ein Theil von Deutschland im Maassstabe der Hauptkarte zum Vergleich. Scale, 1:3,700,000. Size, 4.7 X 6 cm.

XXIII. 1877. Pl. 19.

965. Abschnürung der Turtle Bai durch das Delta des Trinity River. Scale, 1:300,000. Size, 2.5 X 3.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.
966. Mississippi-Delta. Scale, 1:3,000,000. Size, 9.8 X 6.9 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.
967. Süd-West Pass des Mississippi. Scale, 1:300,000. Size, 2.5 X 3.4 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.
968. Die Pässe des Mississippi Delta's. Scale, 1:500,000. Size, 9.3 X 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 3.

969. Karte zur Übersicht der Verbreitung der Indianer-Stämme in Californien. Nach Stephen Powers. Scale, 1:3,750,000. Size, 24.9 X 31.4 cm.

XXV. 1879. Pl. 13.

970. Reduction topographischer Aufnahmen im Südwesten der Vereinigten Staaten unter Wheeler und Hayden, 1869-1876. Scale, 1:3,700,000. Size, 31.5 X 24.7 cm.

XXVII. 1881. Pl. 9.

5. Mexico.

971. Skizze des Staates Tabasco, von A. Petermann. Scale, 1:2,800,000. Size, 13.7 X 11.4 cm.

[I.] 1856. P. 399.

972. Die Cordillere des Orizaba u. Perote bis zur Küste des Mexikan. Golfes. Scale, 1:1,000,000. Size, 19 X 11.3 cm.

[III.] 1857. Pl. 16.
973. Skizze des Pic von Orizaba. Scale, 1:216,000. Size, 11 X 13.1 cm.

[III.] 1857. Pl. 16.
974. Originalkarte der Californischen Halbinsel nach den Aufnahmen der für die Lower California Company ausgeführten Expedition unter J. Ross Browne, W. M. Gabb & F. Loehr. Mit Benutzung der Küstenaufnahmen v. Capt. C. M. Scammon zusammengestellt von F. Loehr. Den neuesten Englischen Küstenaufnahmen adjustirt v. A. Petermann. Scale, 1:3,500,000. Size, 22.7 X 33.4 cm.

[XIV.] 1868. Pl. 14.
975. C. Dewey's Aufnahme der Californischen Halbinsel und der Mexikanischen Küsten 1873-4. Reduktion der vom Hydrographic Office, U. S. Navy herausgegebenen grossen Karten von A. Petermann. Scale, 1:3,500,000. Size, 19.8 X 53 cm.

XXI. 1875. Pl. 9.

976. Karte der Halbinsel Yucatan, hauptsächlich nach der von Joachim Hübbe und Andres Aznar Perez zusammengestellten und von C. Hermann Berendt revidirten und vermehrten Mapa de la Peninsula de Yucatan, von 1878. Scale, 1:1,600,000. Size, 44.4 X 33.4 cm.

XXV. 1879. Pl. 11.

6. Central America.

977. Karte von Central-America zur Übersicht der staatlichen Verhältnisse und der Reisen von Dr. C. Scherzer und Dr. M. Wagner 1853 & 1854. Ge-

zeichnet von Herm. Berghaus. Scale, 1 : 8,000,000. Size, 24.6 × 20 cm. [II.] 1856. Pl. 14.

978. Karte vom Yojoa-See [Honduras]. Scale, 1 : 1,000,000. Size, 6.7 × 11.6 cm.

[V.] 1859. P. 169.

979. Originalkarte des nördlichen Theiles von Costarica. Nach einer Original-Zeichnung von Dr. A. v. Frantzius, mit Benutzung anderen Materials von A. Petermann. Scale, 1 : 1,000,000. Size, 24.5 × 19 cm. [VII.] 1861. Pl. 12.

980. Originalkarte des nordwestlichen Theiles von Costarica zur Übersicht der Reisen Dr. K. v. Seebach's Dec. 1864–Jan. 1865. Den Küstenaufnahmen v. Belcher u. A. adjustirt von A. Petermann. Scale, 1 : 600,000. Size, 19 × 24.4 cm.

[XI.] 1865. Pl. 9.

981. Der Vulkan Turrialba in Costarica von Dr. K. v. Seebach. Scale, 1 : 50,000. Size, 10.5 × 5.3 cm. [XI.] 1865. Pl. 9.

982. Originalkarte von Costarica von A. v. Frantzius, enthaltend die Resultate der neuesten Aufnahmen & Beobachtungen von: Valentini, L. Daser, F. Kurtze, K. v. Seebach, Raf. Alvarado, A. Oerstedt, T. A. Hull, u. A. Redigirt von A. Petermann. Scale, 1 : 1,000,000. Size, 42.2 × 24.8 cm.

XV. 1869. Pl. 5.

983. Bucht von Limon aufgenommen am Bord S. M. S. Augusta im April 1868 durch Capt.-Lieut. Kühne. Scale, 1 : 50,000. Size, 7.6 × 13.2 cm.

XV. 1869. Pl. 5.

984. Originalkarte des Hauptgebietes von Costarica, zur Übersicht der Aufnahmen von W. M. Gabb, Collins & Martinez von A. Petermann. Scale, 1 : 600,000. Size, 42.6 × 24.5 cm.

XXIII. 1877. Pl. 18.

985. Der Ilopango-See nach den Aufnahmen von Prof. M. R. Ortega. Scale, 1 : 150,000. Size, 8.6 × 7.3 cm. XXVI. 1880. P. 452.

7. West Indies.

986. Das Dänische Westindien. Scale, 1 : 1,500,000. Size, 6.6 × 7.7 cm. [VIII.] 1862. Pl. 9.

987. Karte der Insel Haiti nach den officiellen Karten & Aufnahmen von W. M. Gabb & Robert H. Schomburgk und allen andern vorhandenen Quellen von A. Petermann. Scale, 1 : 1,100,000. Size, 62.2 × 24.8 cm. XX. 1874. Pl. 17.

VIII. SOUTH AMERICA.

1. General.

988. Geologische Übersichts-Karte von Süd-Amerika, nach verschiedenen Quellen zusammengestellt von Franz Foetterle. Die geographische Zeichnung von A. Petermann. Scale, 1 : 25,000,000. Size, 23.3 × 31.3 cm. [II.] 1856. Pl. 11.

2. Columbia, Venezuela, Ecuador.

989. Der Isthmus von Panama im Maassstabe von 1 : 200,000. Nach der grossen Aufnahme von G. M. Totten, 1857, sowie nach den Vermessungen von J. A. Lloyd, E. Barnett, Sir E. Belcher, H. Kellett, J. Wood u. A. in den Jahren 1828–1858, und nach den Forschungen, Messungen u. handschriftlichen Croquis von Dr. Moritz Wagner, 1858. Von A. Petermann. 1. Juni 1861. Scale, 1 : 200,000. Size, 43.5 × 24.8 cm. Ergbd. [I.] [No. 5.] 1861.

990. Der Isthmus von San Blas nach einer handschriftlichen Karte von Dr. Moritz Wagner, mit Benutzung anderer Quellen von A. Petermann. Scale, 1 : 750,000. Size, 24.5 × 19.1 cm.

[VIII.] 1862. Pl. 7.

991. Karte des Departements Chiriqui (Staat Panama). Nach handschriftlichen Zeichnungen & Aufnahmen von Codazzi und Obaldia, und nach eigenen Beobachtungen entworfen von Dr. Moritz Wagner. Den englischen & französischen Küstenaufnahmen adjustirt von A. Petermann. Scale, 1 : 1,000,000. Size, 24.5 × 19.1 cm.

[IX.] 1863. Pl. 2.

992. Spezialkarte von A. v. Humboldt's Reisen in Venezuela und am Orinoko-Strom. Scale, 1 : 4,000,000. Size, 16.6 × 25.3 cm. XV. 1869. Pl. 16.

993. Reiserouten in Columbien von Eduard Steinhil 1872 & 1873. Scale, 1 : 1,600,000. Size, 19.2 × 24.8 cm. XXII. 1876. Pl. 15.

994. Venezuela zur Darstellung der gegenwärtigen Staateneintheilung. Nach der Karte von M. Tejera, 1876. Scale, 1 : 5,500,000. Size, 31.1 × 24.5 cm.

Ergbd. XII. No. 55. 1878. Pl. 2.

995. Delta des Atrato. Scale, 1 : 600,000. Size, 6.2 × 8.4 cm. Ergbd. XII. No. 56. 1878. Pl. 1.

996. Der Staat Antioquia in Colombia. Reducirt von den Originalkarten von C. S. de Greiff und Villavéces, mit Ergänzungen v. R. B. White u. F. v. Schenck. Scale, 1 : 850,000. Size, 33.5 × 44.5 cm. XXVI. 1880. Pl. 3.

3. Brazil.

997. Karte von den Central-Regionen Süd-Amerika's. Nach dem in den Jahren 1853–1855 publicirten Castelnau'schen Atlas gezeichnet von A. Petermann. Scale, 1 : 4,000,000. Size, 50 × 24.8 cm.

[III.] 1857. Pl. 10.

998. Karte der Brasilian' Provinz Minas Geraes, aufgenommen auf Befehl der Provinzialregierung in den Jahren 1836–1855, mit Benutzung älterer Karten u. neuerer Vermessungen u. Beobachtungen, unter specieller Leitung des Civil-Ingenieurs H. G. F. Halfeld entworfen u. gezeichnet von Friedrich Wagner. Scale, 1 : 2,000,000. Size, 42.9 × 52.8 cm.

Ergbd. III. No. 9. 1862.

999. Aufnahme des oberen S. Francisco u. Rio das Velhas (Brasilien) von Emmanuel Liais. Scale, 1 : 720,000. Size, 24.7 × 43.9 cm.

[XII.] 1866. Pl. 17.

1000. Karte zum Vergleich der Aufnahmen von Liais (punktirt) mit der bisherigen Vorstellung. Scale, 1 : 2,000,000. Size, 8.3 × 15.9 cm.

[XII.] 1866. Pl. 17.

1001. Aufnahme der Flüsse Purús und Aquiry durch W. Chandless, 1864 & 1865. Nach den Engl. Originalkarten im Journ. R. G. S., vol. 36 zusammengestellt von A. Petermann. Scale, 1 : 3,500,000. Size, 42.2 × 24.6 cm. [XIII.] 1867. Pl. 10.

1002. Vergleichende Übersicht der Aufnahmen von Chandless (punktirt) mit den bisherigen Karten. Scale, 1 : 14,000,000. Size, 19.7 × 14.7 cm.

[XIII.] 1867. Pl. 10.

1003. Vereinigung des Purús mit dem Amazonenstrom nach den Aufnahmen von Paul Marcoy 1861. Scale, 1 : 3,500,000. Size, 7.7 × 7 cm.

[XIII.] 1867. Pl. 10.

1004. Karte des Madeira Stromes zwischen den Schnellen St. Antonio & Guajara-Merim, nebst der projektirten Eisenbahn, astronomisch bestimmt & aufgenommen von den Ingenieuren Jos. Keller & Franz Keller. Scale, 1 : 1,000,000. Size, 19.2 × 24.7 cm. XIX. 1873. Pl. 21.

4. Peru and Bolivia.

1005. Dr. R. A. Philippi's Erforschung der sogenannten Wüste Atacama Nov. 1853–Februar 1854. Nach Döll's Entwurf gezeichnet von A. Petermann. Scale, 1: 2,250,000. Size, 14.1 × 24.6 cm.

[II.] 1856. Pl. 3.

1006. Skizze zur Veranschaulichung der früheren Vorstellung der Andes zwischen 19° u. 27½° S. B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 4.

1007. Physikalische Skizze der Andes zwischen 19° u. 27½° S. B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 5.

1008. Karte von den Central-Regionen Süd-Amerika's. Nach dem in den Jahren 1853–1855 publicirten Castelnau'schen Atlas gezeichnet von A. Petermann. Scale, 1: 4,000,000. Size, 50 × 24.8 cm.

[III.] 1857. Pl. 10.

1009. Originalkarte zu J. J. v. Tschudi's Reise durch die Andes von Süd-Amerika von Córdova nach Cobija 18. Juni–13 Aug. 1858. Von A. Petermann. Scale, 1: 4,000,000. Size, 19 × 24.6 cm.

Ergbd. [I.] [No. 2.] 1860.

1010. Physikalische Skizze der Andes zwischen 22° und 31° Südl. Breite. Scale, 1: 10,000,000. Size, 8.8 × 11.4 cm.

Ergbd. [I.] [No. 2.] 1860.

1011. Originalkarte von Bolivia nach den besten Hülfquellen & nach eigenen Aufnahmen von Hugo Reck aus Clausthal 1865. Scale, 1: 6,250,000. Size, 24.6 × 40.1 cm.

[XI.] 1865. Pl. 10.

1012. Aufnahme der Flüsse Purús und Aquiry durch W. Chandless, 1864 & 1865. Nach den Engl. Originalkarten im Journ. R. G. S., vol. 36 zusammengestellt von A. Petermann. Scale, 1: 3,500,000. Size, 42.2 × 24.6 cm.

[XIII.] 1867. Pl. 10.

1013. Vergleichende Übersicht der Aufnahmen von Chandless [punktirt] mit den bisherigen Karten. Scale, 1: 14,000,000. Size, 19.7 × 14.7 cm.

[XIII.] 1867. Pl. 10.

1014. Karte des Madeira Stromes zwischen den Schnellen St. Antonio & Guajara-Merim, nebst der projectirten Eisenbahn, astronomisch bestimmt & aufgenommen von den Ingenieuren Jos. Keller & Franz Keller. Scale, 1: 1,000,000. Size, 19.2 × 24.7 cm.

XIX. 1873. Pl. 21.

1015. Skizze des Litorals von Bolivia. Von H. Wagner. Scale, 1: 2,000,000. Size, 19.2 × 24.7 cm.

XXII. 1876. Pl. 17.

1016. Der obere Lauf des Amazonenstroms und seine peruanischen Nebenflüsse. Mit Zugrundelegung der astronomischen Positionsbestimmungen der peruanischen Hydrograph. Commission, 1868–73 bearbeitet von H. Habenicht. Scale, 1: 2,200,000. Size, 30.7 × 43.4 cm.

XXV. 1879. Pl. 5.

1017. Karte der Salzwüste Atacama und des Grenzgebietes zwischen Chile, Bolivia und Peru. Scale, 1: 1,600,000. Size, 20 × 52.6 cm.

XXV. 1879. Pl. 16.

1018. Tracé einer Eisenbahn von Mejillones nach La Paz in Bolivia, aufgenommen vom Ingenieur Hugo A. Desmond. Scale, 1: 2,000,000. Size, 19.1 × 29.9 cm.

XXVI. 1880. Pl. 13.

5. Chili.

1019. Dr. R. A. Philippi's Erforschung der sogenannten Wüste Atacama Nov. 1853–Februar 1854. Nach Döll's Entwurf gezeichnet von A. Petermann. Scale, 1: 2,250,000. Size, 14.1 × 24.6 cm.

[II.] 1856. Pl. 3.

1020. Skizze zur Veranschaulichung der frühe-

ren Vorstellung der Andes zwischen 19° u. 27½° S. B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 4.

1021. Physikalische Skizze der Andes zwischen 19° u. 27½° S. B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 5.

1022. Kartenskizze zur Übersicht der Volksdichtigkeit von Chili nach dem Census vom 19 April 1854. Von A. Petermann. Scale, 1: 11,000,000. Size, 5.5 × 21 cm.

[VI.] 1860. P. 185.

1023. Originalkarte der Provinz Valdivia in Chili. Nach einer handschriftlichen Zeichnung von Dr. R. A. Philippi und anderen Dokumenten von A. Petermann. Scale, 1: 2,000,000. Size, 19 × 24.5 cm.

[VI.] 1860. Pl. 6.

1024. Originalkarte der Reiseroute des Prof. Dr. Burmeister durch die Cordilleren zwischen Catamarca und Copiapó März 1860. Nach des Reisenden Handzeichnung und Aufsatz von A. Petermann. Scale, 1: 1,000,000. Size, 24.5 × 19 cm.

[VI.] 1860. Pl. 16.

1025. Originalkarte zu J. J. v. Tschudi's Reise durch die Andes von Süd-Amerika von Córdova nach Cobija 18. Juni–13 Aug. 1858. Von A. Petermann. Scale, 1: 4,000,000. Size, 19 × 24.6 cm.

Ergbd. [I.] [No. 2.] 1860.

1026. Physikalische Skizze der Andes zwischen 22° und 31° Südl. Breite. Scale, 1: 10,000,000. Size, 8.8 × 11.4 cm.

Ergbd. [I.] [No. 2.] 1860.

1027. Originalkarte des Nevado de Chillan von Dr. R. A. Philippi. Scale, 1: 170,000. Size, 18.2 × 11.1 cm.

[IX.] 1863. Pl. 8.

1028. Originalkarte der Laguna de Riñihue im südlichen Chile. Unter Mitwirkung des Don Enrique Lagrèze aufgenommen von Wilhelm Frick, 1862. Scale, 1: 200,000. Size, 19 × 11 cm.

[X.] 1864. Pl. 3.

1029. Die See'n von Valdivia (S. Chile) nach den bisherigen Vorstellung. Scale, 1: 2,000,000. Size, 8.8 × 13.4 cm.

[X.] 1864. Pl. 3.

1030. Die See'n von Valdivia (S. Chile) nach den Beobachtungen und Erkundigungen von Frick, 1862. Scale, 1: 2,000,000. Size, 9.9 × 13.4 cm.

[X.] 1864. Pl. 3.

1031. Juan Fernandez. Scale, 1: 1,000,000. Size, 3.2 × 2.6 cm.

[XII.] 1866. Pl. 3.

1032. Karte von Chile in 2 Blättern. Nach der Landesaufnahme in 1: 250,000 reducirt auf 1: 1,500,000 von A. Petermann. Scale, 1: 1,500,000. Nördlicher Theil: Size, 19.8 × 52.7 cm.; südlicher Theil: Size, 20.1 × 31.5 cm.

XVI. 1870. Pl. 3, 4.

1033. Karte von Chile in 2 Blättern. Nach der Landesauffahme in 1: 250,000 reducirt auf 1: 1,500,000 von A. Petermann. Scale, 1: 1,500,000. Nördlicher Theil: Size, 19.9 × 52.8 cm. südlicher Theil: Size, 19.9 × 31.6 cm.

XXI. 1875. Pl. 3, 4.

1034. Mapa original de la Republica Argentina y Estados Adyacentes comprendiendo Las Republicas de Chile, Paraguay y Uruguay, compilado sobre los ultimos trabajos hechos por la Oficina de Ingenieros Nacionales (de la Republica Argentina), de los referente departamentos topograficos provinciales (y de otros materiales hechos o facilitados) por el Coronel de Ingenieros Don Juan Czet, Don Pompeyo Moneta, Cefe de la Oficina de Ingenieros Nacionales, R. A. Mayor, Don F. Ignacio Rickard, y otros, por el Doctor Don A. Petermann. Scale, 1: 4,000,000. Size, 49.3 × 60.6 cm.

Ergbd. IX. No. 39. 1875.

1035. Specialkarte vom Chonos Archipel nach den Englischen und Chilenischen Aufnahmen. Von A. Petermann. Scale, 1: 1,200,000. Size, 24.3 × 31.6 cm.

XXIV. 1878. Pl. 24.

1036. Neue Provinzial-Eintheilung des südlichen Chile. Scale, 1: 4,000,000. Size, 10.5 × 28.9 cm.

Ergbd. XII. No. 55. 1878. Pl. 1.

1037. Karte der Salzüste Atacama und des Grenzgebietes zwischen Chile, Bolivia und Peru. Scale, 1: 1,600,000. Size, 20 × 52.6 cm.

XXV. 1879. Pl. 16.

1038. Reise im südwestlichen Patagonien von J. T. Rogers und E. Ibar, 1877. Scale, 1: 3,500,000. Size, 12.2 × 11 cm.

XXVI. 1880. P. 49.

1039. Karte von Süd-Chile: Provinz Llanquihue und Theile von Valdivia und Chiloe. Nach Francisco Vidal Gormaz u. A., sowie nach eigenen Forschungen bearbeitet von C. Martin. Scale, 1: 1,200,000. Size, 22.7 × 36.1 cm. XXVI. 1880. Pl. 8.

6. La Plata.

1040. Der Rio Negro, von seiner Mündung bis zur Insel Coelechel, nach der Aufnahme von N. Descalzi im Jahre 1833, gezeichnet von A. Petermann. Scale, 1: 2,000,000. Size, 17.6 × 11.2 cm.

[II.] 1856. P. 32.

1041. Skizze zur Veranschaulichung der früheren Vorstellung der Andes zwischen 19° u. 27½° S.B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 4.

1042. Physikalische Skizze der Andes zwischen 19° u. 27½° S.B. Scale, 1: 8,200,000. Size, 9.8 × 12.3 cm.

[II.] 1856. Pl. 5.

1043. Skizze des Strom-Gebietes des La Plata zur Übersicht der Amerikanischen Aufnahme unter Th. J. Page, 1853-1856. Scale, 1: 30,000,000. Size, 8.6 × 11.6 cm.

[III.] 1857. Pl. 18.

1044. Der Fluss Paraguay von Asuncion bis Corrientes. Nach den Englischen Aufnahmen unter Lieut' G. F. Day, 1853, gez. von A. Petermann. Scale, 1: 1,000,000. Size, *irregular*.

[III.] 1857. Pl. 8.

1045. Der Fluss Uruguay von Paysandu bis Martin Garcia. Nach den Englischen Aufnahmen von Sulivan und Sidney 1847 u. 1856, gez. von A. Petermann. Scale, 1: 1,000,000. Size, *irregular*.

[III.] 1857. Pl. 19.

1046. Originalkarte der Reiseroute des Prof. Dr. Burmeister durch die Cordilleren zwischen Catamarca und Copiapó März 1860. Nach des Reisenden Handzeichnung und Aufsatz von A. Petermann. Scale, 1: 1,000,000. Size, 24.5 × 19 cm.

[VI.] 1860. Pl. 16.

1047. Originalkarte J. J. v. Tschudi's Reise durch die Andes von Süd-Amerika von Córdoba nach Cobija 18. Juni-13. Aug. 1858. Von A. Petermann. Scale, 1: 4,000,000. Size, 19 × 24.6 cm.

Ergbd. [I.] [No. 2.] 1860.

1048. Physikalische Skizze der Andes zwischen 22° und 31° Südl. Breite. Scale, 1: 10,000,000. Size, 8.8 × 11.4 cm.

Ergbd. [I.] [No. 2.] 1860.

1049. Originalkarte des nordwestlichen Theiles der Argentinischen Republik (Provinzen Tucuman & Catamarca) nach den Handzeichnungen & Beschreibungen von Prof. Dr. H. Burmeister red. von A. Petermann. Scale, 1: 1,200,000. Size, 24.7 × 27.9 cm.

[XIV.] 1868. Pl. 4.

1050. Mapa original de la Republica Argentina y Estados Adyacentes comprendiendo Las Republicas de Chile, Paraguay y Uruguay, compilado sobre los ultimos trabajos hechos por la Oficina de Ingenieros Nacionales (de la Republica Argentina), de los referente departamentos topograficos provinciales (y de otros materiales hechos o facilitados) por el Coronel de Ingenieros Don Juan Czet, Don Pompeyo Moneta, Cefe de la Oficina de Ingenieros

Nacionales, R. A. Mayor, Don F. Ignacio Rickard, y otros, por el Doctor Don A. Petermann. Scale, 1: 4,000,000. Size, 49.3 × 60.6 cm.

Ergbd. IX. No. 39. 1875.

1051. Das streitige Gebiet zwischen Argentinien & Paraguay. Scale, 1: 5,000,000. Size, 8.8 × 10.2 cm.

Ergbd. XI. No. 49. 1876. Pl. 1 [2].

1052. Die Argentinischen Territorien der Pampa, des Rio-Negro &c. Nach den Aufnahmen der Expeditionscorps gegen die Indianer, unter General D. J. A. Roca. Scale, 1: 4,000,000. Size, 24.9 × 19.3 cm.

XXVII. 1881. Pl. 5.

7. Paraguay and Uruguay.

1053. Skizze des Strom-Gebietes des La Plata zur Übersicht der Amerikanischen Aufnahme unter Th. J. Page, 1853-1856. Scale, 1: 30,000,000. Size, 8.6 × 11.6 cm.

[III.] 1857. Pl. 18.

1054. Der Fluss Paraguay von Asuncion bis Corrientes. Nach den Englischen Aufnahmen unter Lieut' G. F. Day, 1853, gez. von A. Petermann. Scale, 1: 1,000,000. Size, *irregular*.

[III.] 1857. Pl. 18.

1055. Der Fluss Uruguay von Paysandu bis Martin Garcia. Nach den Englischen Aufnahmen von Sulivan und Sidney 1847 u. 1856, gez. von A. Petermann. Scale, 1: 1,000,000. Size, *irregular*.

[III.] 1857. Pl. 19.

1056. Die Republik Uruguay. Nach ältern u. neuern Quellen gez. von A. Petermann. Scale, 1: 3,200,000. Size, 19.2 × 24.5 cm.

[III.] 1857. Pl. 20.

1057. Mapa original de la Republica Argentina y Estados Adyacentes comprendiendo Las Republicas de Chile, Paraguay y Uruguay, compilado sobre los ultimos trabajos hechos por la Oficina de Ingenieros Nacionales (de la Republica Argentina), de los referente departamentos topograficos provinciales (y de otros materiales hechos o facilitados) por el Coronel de Ingenieros Don Juan Czet, Don Pompeyo Moneta, Cefe de la Oficina de Ingenieros Nacionales, R. A. Mayor, Don F. Ignacio Rickard, y otros, por el Doctor Don A. Petermann. Scale, 1: 4,000,000. Size, 49.3 × 60.6 cm.

Ergbd. IX. No. 39. 1875.

1058. Das streitige Gebiet zwischen Argentinien & Paraguay. Scale, 1: 5,000,000. Size, 8.8 × 10.2 cm.

Ergbd. XI. No. 49. 1876. Pl. 1 [2].

8. Patagonia.

1059. Francisco P. Moreno's Erforschung eines Theiles von Patagonien 1876 & 1877. Mit Benutzung älterer Quellen hauptsächlich reducirt von Moreno's Originalkarte (Buenos Aires, 1879). Scale, 1: 1,750,000. Size, 24.6 × 19.4 cm.

XXV. 1879. Pl. 22.

1060. Reise im südwestlichen Patagonien von J. T. Rogers und E. Ibar, 1877. Scale, 1: 3,500,000. Size, 12.2 × 11 cm.

XXVI. 1880. P. 49.

1061. Die Quellseen des Rio Santa Cruz nach J. H. Gardiner, 1867. Scale, *wanting*. Size, 6.3 × 5.1 cm.

XXVI. 1880. P. 62.

IX. POLAR REGIONS.

1. North Polar Region.

1062. Skizze der ungefähren Lage und Ausdehnung der Entdeckungen von Dr. E. K. Kane's Expedition [Mai 1853 bis Okt. 1855]. Scale, 1: 32,000,000. Size, 13 × 6.7 cm.

[I.] 1855. P. 291.

1063. Karte des Arktischen Archipel's der Parry-Inseln nach den bis zum Jahre 1855 gewonnenen Resultaten Englischer Aufnahmen gezeichnet von A. Petermann. Mean scale, 1:2,500,000. Size, 56.7 × 24.5 cm. [I.] 1855. Pl. 8.

1064. Erebus Bai nach der Aufnahme des Comm. W. J. Pullen 1854. Scale, 1:250,000. Size, 5.6 × 4.4 cm. [I.] 1855. Pl. 8.

1065. Die Entdeckungen der Amerikanischen Expedition unter Dr. E. K. Kane, 1853-1855, nördlich vom Smith-Sund. Nach dem der Britischen Admiralität mitgetheilten Karten-Entwurf Dr. Kane's gezeichnet von A. Petermann. Scale, 1:4,250,000. Size, 19 × 24.2 cm. [II.] 1856. Pl. 2.

1066. Übersichtskarte der wahrscheinlichen Route von Sir J. Franklin's Expedition vom J. 1845 bis 1848. Von A. Petermann. Scale, 1:12,000,000. Size, 16.5 × 19.1 cm. [V.] 1859. Pl. 18.

1067. Schauplatz des Untergangs von Franklin's Expedition und Darstellung der Aufnahmen McClintock's vom J. 1859. Nach einer officiellen Karte der Brit. Admiralität. Mean scale, 1:4,000,000. Size, 8.6 × 19.1 cm. [V.] 1859. Pl. 18.

1068. Karte der Arktischen und Antarktischen Regionen zur Übersicht des geographischen Standpunktes, im J. 1865, der Meeresströmungen &c. Von A. Petermann. Scale, 1:60,000,000. Size, (diam.), 25.3 cm.

Fünf Cartons zur Veranschaulichung der Veränderlichkeit und Unbeständigkeit des Polareises, nach den Expeditionen von Cook 1773, Bellingshausen 1830, Balleny 1839, Wilkes 1840, J. C. Ross 1841 bis 1842. Size, each, 4.5 × 3.4 cm.

[XI.] 1865. Pl. 5.

1069. Karte der arktischen & antarktischen Regionen, zur Übersicht der Entdeckungsgeschichte. Von A. Petermann. Scale, 1:40,000,000. Size, (diam.), 22.6 × 23.3 cm.

Ergbd. IV. No. 16. 1865. Pl. 1.

1070. Die Bären-Insel. Nach B. M. Keilhau. Scale, ca. 1:500,000. Size, 4.8 × 5.2 cm.

Ergbd. IV. No. 16. 1865. Pl. 2.

1071. Das nördlichste Land der Erde, entdeckt 1616 bis 1861. Nach den Originalquellen gez. von A. Petermann. Scale, 1:4,000,000. Size, 42.5 × 24.5 cm.

1. Bylot & Baffin, 1-12. Juli 1616. Size, 10.9 × 10.3 cm.
2. Ross, 4-27. August 1818. Size, 10.9 × 10.5 cm.
3. Inglefield 20. August-2. Sept. 1852. Size, 10.4 × 24.5 cm.
4. Kane 4. August 1853-21. Juli 1855. Size, 10.4 × 24.5 cm.
5. Hayes 25. August 1860-Juli 1861. Size, 10.9 × 24.5 cm.

[XIII.] 1867. Pl. 6.

1072. Graphische Darstellung von Dr. Kane's Temperatur- und Wind-Beobachtungen in Rensselaer Bai, 1853-55. Scale, *wanting*. Size, 19 × 24.6 cm.

[XIII.] 1867. Pl. 7.

1073. Das Meer der nordöstlichen Durchfahrten. Aus H^m Berghaus' Chart of the World. In Mercator's Projektion. Mean scale, 1:7,000,000. Size, 43.1 × 24 cm. Ergbd. V. No. 21. 1867. Pl. 1.

1074. Karte der arktischen und antarktischen Regionen zur Übersicht der Entdeckungsgeschichte. Von A. Petermann. Scale, 1:40,000,000. Size, (diam.), 22.7 × 23.1 cm. [XIV.] 1868. Pl. 12.

1075. Übersichtskarte des Europäischen Eismeres zur Orientierung des Verlaufes der Deutschen Expedition vom 24. Mai-28. Juni 1868. Von A. Petermann. Scale, 1:10,000,000. Size, 19.3 × 24.4 cm. [XIV.] 1868. Pl. 16.

1076. Wrangel Land und Übersicht der Entdeckungsgeschichte im Eismeer nördl. der Bering-Strasse 1648-1867. Von A. Petermann. Scale, 1:5,000,000. Size, 30.5 × 24.8 cm. XV. 1869. Pl. 2.

1077. Die Meeres-Temperatur des Grönländischen Meeres nach den Beobachtungen der ersten Deutschen Nordpolar-Expedition 1868. Von W. von Freeden, Direktor der norddeutschen Seewarte. Scale, 1:10,000,000. Size, 19.1 × 24.8 cm. XV. 1869. Pl. 11.

1078. Übersicht der Nordpolar-Expeditionen von 1869. Die Meeres-Temperatur des Grönländischen Meeres nach den Beobachtungen der ersten Deutschen Nordpolar-Expedition 1868. Von W. von Freeden, Direktor der norddeutschen Seewarte. Scale, 1:10,000,000. Size, 19.1 × 24.8 cm. XV. 1869. Pl. 18.

1079. Nordpolar-karte zur Übersicht einiger geschichtlichen Momente & der jetzigen Hauptplätze der Grossfischereien (Walfischfang & Robbenschlag). Von A. Petermann. Scale, 1:40,000,000. Size, (diam.), 19.4 × 23.3 cm. Ergbd. VI. No. 26. 1869. Pl. 1.

1080. Karte des Europäischen Nordmeeres zur Übersicht der Geschichte & des jetzigen Standes der Grossfischereien (Walfischfang & Robbenschlag). Von A. Petermann. Scale, 1:10,000,000. Size, 19.1 × 24.8 cm. Ergbd. VI. No. 26. 1869. Pl. 2.

1081. Übersicht des Kurses und der Tiefseemessungen der Schwedischen Expedition unter Nordenskiöld & v. Otter, 20. Juli-19. Oktober 1868. Nach der Schwedischen Karte von A. Petermann. Scale, 1:5,600,000. Size, 19.2 × 24.8 cm. XVI. 1870. Pl. 8.

1082. Bären Insel nach der Schwed. Aufnahme 1868. Scale, 1:2,000,000. Size, 3.1 × 2.6 cm. XVI. 1870. Pl. 8.

1083. Der Golfstrom im Sommer (Juli) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre 1870. Von A. Petermann. Mean scale, 1:20,000,000. Size, 31.6 × 24.7 cm. XVI. 1870. Pl. 12.

1084. Der Golfstrom im Winter (Januar) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre 1870. Von A. Petermann. Mean scale, 1:20,000,000. Size, 31.3 × 24.9 cm. XVI. 1870. Pl. 13.

1085. Die Temperatur-Verhältnisse in den arktischen Regionen. Von A. Petermann.

- a. Isothermen des Januar von 2° zu 2° R. Scale, 1:36,000,000. Size, (diam.), 24.4 cm.
- b. Isothermen des Juli von 2° zu 2° R. (absolute Temperatur^a). Scale, 1:73,000,000. Size, (diam.), 12.2 cm.
- c. Isothermen der absoluten Minima von 10° zu 10° R. Scale, 1:73,000,000. Size, (diam.), 12.2 cm.
- d. Isothermen (Isothermen des Sommer's: Juni, Juli, August) von 2° zu 2° R. (absolute Temperatur^a). Scale, 1:73,000,000. Size, (diam.), 12.2 cm.
- e. Isochimenen (Isothermen des Winter's: Dezember, Januar, Februar) von 2° zu 2° R. (absolute Temperatur^a). Scale, 1:73,000,000. Size, (diam.), 12.2 cm.

XVI. 1870. Pl. 14.

1086. Lamont's Reise, Mai-Aug. 1871. Construiert nach seinem Tagebuche von A. Petermann. Originalkarte der 1. Deutschen Nordpolar-Expedition, 1868. Nach dem Tagebuche K. Koldewey's construiert von A. Petermann. Scale, 1:5,000,000. Size, 32.9 × 48.4 cm. XVII. 1871. Pl. 22.

1087. Originalkarte der 1. Deutschen Nordpolar-Expedition, 1868. Nach dem Tagebuche K. Koldewey's construiert von A. Petermann. Scale, 1:5,000,000. Size, 33.1 × 48.6 cm. Ergbd. VI. No. 28. 1871. Pl. 1.

1088. Originalkarte zur Übersicht der Reisen von Smyth, Ulve, Torkildsen, 1871, des Seeboden-Reliefs bei Nord-Europa und Spitzbergen, und des Standpunktes der geographischen Kenntniss von Spitzbergen, König-Karl-Land und Gillis-Land im Jahre 1872. Von A. Petermann. Mean scale, 1:2,500,000. Size, 27.5 × 52.7 cm. XVIII. 1872. Pl. 5.

1089. Originalkarte zur Übersicht der Expeditionen von Zeil, Heuglin, Rosenthal nach Spitzbergen & Nowja Semlja 1870-71. Von A. Petermann. Mean scale, 1 : 5,000,000. Size, 31 X 24.4 cm.

XVIII. 1872. Pl. 14.

1090. Spezialkarte von Nord-Sibirien zwischen Jenisei & Lena nach allen bisherigen Aufnahmen & Expeditionen. Von A. Petermann. Mean scale, 1 : 3,000,000. Size, 49 X 36.2 cm.

XIX. 1873. Pl. 1.

1091. Originalkarte von König-Karl-Land nach den Beobachtungen Zeichnungen & Beschreibungen von Johnsen, Altmann, Nilsen, Carlsen, Tobiesen & Heuglin entworfen von Professor H. Mohn, Direktor des Norw. Meteor. Inst. in Christiania, 1872. Mean scale, 1 : 1,000,000. Size, 31.7 X 24.4 cm.

XIX. 1873. Pl. 7.

1092. Originalkarte der Norwegischen Winterfahrt im Dampfer "Albert" unter Capt. Otto November & Dezember 1872. Entworfen von Prof. H. Mohn. Mean scale, 1 : 4,000,000. Size, 19.2 X 24.9 cm.

XIX. 1873. Pl. 13.

1093. Die Amerikanische Nordpolar-Expedition unter Kapitän C. F. Hall 1871-72. Von A. Petermann. Scale, 1 : 1,900,000. Size, 22.7 X 36.9 cm.

XIX. 1873. Pl. 16.

1094. Originalkarte der Trift der Amerikanischen Nordpolar-Expedition unter Kapitän C. F. Hall 1872-3 von 80° bis 53° Nördl. Breite, und Standpunkt der Kenntniss von West-Grönland und dem arktischen Nordost-Amerika in 1873. Von A. Petermann. Scale, 1 : 6,500,000. Size, 19.9 X 53 cm.

XIX. 1873. Pl. 20.

1095. Die neuesten Entdeckungen im arktischen Nord-Amerika. Eclipse Sound und Admiralty Inlet. Scale, 1 : 6,500,000. Size, 6.4 X 3.9 cm.

XIX. 1873. Pl. 20.

1096. Die arktische Expedition des Grafen Hans Wilschek nach Spitzbergen & Nowja Semlja Juni-Sept. 1872. Nach Aufzeichnungen des Contre-Admirals v. Sterneck & Ehrenstein herausgegeben durch das Hydrograph. Amt der K. K. Österr. Kriegsmarine. Mean scale, 1 : 5,000,000. Size, 31.2 X 24.6 cm.

XX. 1874. Pl. 4.

1097. Die Entdeckungen der Amerikanischen Nordpolar-Expedition unter Kapitän C. F. Hall 1871-1873. Reduction der vom Hydrographic Office, U. S. Navy herausgegebenen grossen Karte. Von A. Petermann. Scale, 1 : 2,200,000. Size, 24.6 X 43 cm.

XX. 1874. Pl. 13.

1098. Karte der geographischen Verbreitung des Nordlichtes. Von H. Fritz. Scale, 1 : 70,000,000. Size, 19.1 X 24.6 cm.

XX. 1874. Pl. 18.

1099. Originalkarte zur Übersicht des Standpunktes neuester Polarforschungen bis Ende September 1874. Von A. Petermann. Scale, 1 : 16,000,000. Size, 14.8 X 24.9 cm.

XX. 1874. Pl. 20.

1100. Provisorische Skizze von Franz Joseph Land entdeckt von der 2. Österr.-ungar. Nordpolar-Expedition 1873 & 1874. Roher der Erinnerung entnommener Umriss vom Oberlieutenant Julius Payer. Scale, 1 : 1,600,000. Size, 19.2 X 24.9 cm.

XX. 1874. Pl. 20.

1101. Zweite provisorische Karte von Franz Joseph Land Entdeckt von der 2. Österr.-ungar. Nordpolar-Expedition 1873 & 1874 von Oberlieut. Julius Payer, 10. Okt. 1874. Scale, 1 : 1,600,000. Size, 19.3 X 24.7 cm.

XX. 1874. Pl. 23.

1102. Originalkarte vom Grönländischen Meere und seinen Eisverhältnissen in 1874 von Capt. David Gray. Scale, 1 : 5,000,000. Size, 19.2 X 24.6 cm.

XXI. 1875. Pl. 6.

1103. Originalkarte der Eistrift der Österr.-ungar. Expedition unter Weyprecht & Payer 24.

Aug. 1872-1. Nov. 1873. Von A. Petermann. Scale, 1 : 1,800,000. Size, 19 X 24.6 cm.

XXI. 1875. Pl. 12.

1104. Ablenkung des Kurses der Ö. U. Expedition während der Eistrift 24. Aug. 1872-1. Nov. 73. Ermittelt von B. v. Willerstorf-Urbair. Scale, 1 : 3,600,000. Size, 9.1 X 11.8 cm.

XXI. 1875. Pl. 12.

1105. Neuer Seeweg von Europa nach Sibirien. Nordenskiöld's Expedition von Tromsø zum Jenisei, Juni-Sept. 1875. Von A. Petermann. Scale, 1 : 20,000,000. Size, 31.4 X 24.7 cm.

XXI. 1875. Pl. 24.

1106. Endgültige Karte von Franz Josef Land entdeckt von der 2. Österr.-ungar. Nordpolar-Expedition 1873 & 1874. Aufgenommen von Julius Payer. Scale, 1 : 1,000,000. Size, 22.8 X 36.5 cm.

XXII. 1876. Pl. 11.

1107. Die Temperaturverhältnisse im Meere zwischen Norwegen, Schottland, Island & Spitzbergen. Von H. Mohn. Scale, 1 : 30,000,000. Size, 31 X 24.5 cm.

XXII. 1876. Pl. 22.

1108. Skizze der Entdeckungen der Englischen Polar-Expedition unter Nares, 1876. Von A. Petermann. Scale, 1 : 16,000,000. Size, 15.5 X 25 cm.

XXII. 1876. Pl. 24.

1109. Die Entdeckungen der Amerikanischen Nordpolar-Expedition unter Kapitän C. F. Hall 1871-1873. Nebst Skizze der Entdeckungen der Engl. Expedition unter Kapt. Nares 1875-76. Von A. Petermann. Scale, 1 : 2,200,000. Size, 24.7 X 43.3 cm.

XXII. 1876. Pl. 25.

1110. Die Entdeckungen der Englischen Expedition "Alert" & "Discovery" unter Sir George Nares, 1875-6. Nach der Engl. offiziellen Admiraltäts Karte von A. Petermann. Scale, 1 : 2,500,000. Size, 24.5 X 31.5 cm.

XXIII. 1877. Pl. 2.

1111. Originalkarte der Rückreise der Österr.-ungar. Expedition Mai-August 1874. Nach Weyprecht's Beobachtungen von A. Petermann. Scale, 1 : 1,900,000. Size, 19.2 X 24.8 cm.

XXIII. 1877. Pl. 5.

1112. Originalkarte der Eisbewegungen im Grönländischen Meere. Auf dem Rosenthal'schen Dampfer "Bienenkorb" aufgenommen im März bis August 1869 von F. J. Dorst. Nebst den Routen von Capt. David Gray 1875 & 1876. Von A. Petermann. Scale, 1 : 5,000,000. Size, 19.2 X 24.9 cm.

XXIII. 1877. Pl. 10.

1113. Die Tiefenverhältnisse des Norwegischen Meeres. Nach den Beobachtungen der Norwegischen Untersuchungs-Expedition, 1876. Von H. Mohn. Scale, 1 : Scale, 1 : 8,000,000. Size, 20.8 X 12.2 cm.

XXIV. 1878. Pl. 1.

1114. Übersichtskarte der Eismeertiefe. Scale, 1 : 40,000,000. Size, 5.9 X 7.8 cm.

XXIV. 1878. Pl. 1.

1115. Originalkarte von Jan Mayen nach Zorgdrager, Scoresby und der Aufnahme der Norwegischen Nordmeer-Expedition entworfen von Capt. C. Wille und Dr. H. Mohn 1878. Scale, 1 : 200,000. Size, 31.1 X 24.6 cm.

XXIV. 1878. Pl. 13.

1116. Übersichtskarte der Beiträge der Norweger zur arktischen Geographie. Scale, 1 : 16,000,000. Size, 18 X 11.9 cm.

XXV. 1879. P. 59.

1117. Temperaturzonen des nördlichen Circumpolarbeckens. Von Alex. Supan. Scale, [1 : 36,000,000]. Size, (diam.), 9.5 cm.

XXV. 1879. P. 354.

1118. Prof. Nordenskiöld's Fahrt um die Nordspitze Asien's im Dampfer "Vega" 7. bis 27. Aug. 1878. Nach Kapitän Palander's Originalkarte eingezeichnet in A. Petermann's Karte von Nord-Sibirien,

Geograph. Mitth. 1873, Tafel 1. Mean scale, 1: 3,000,000. Size, 49.3 × 36.4 cm.

XXV. 1879. Pl. 2.
1119. Originalkarte des West-Sibirischen Eis-
meers mit der Insel "Einsamkeit," entdeckt von
Capt. E. H. Johansen aus Tromsø im August 1878.
Entworfen von H. Mohn. Mean scale, 1: 2,000,000.
Size, 43.1 × 24.6 cm. XXV. 1879. Pl. 4.

1120. Die Fahrt des russischen Klippers "Wssad-
nik," Lieutenant Onatzewitsch, Aug. 1876, und Über-
sicht der bisherigen arktischen Forschungen nord-
westlich der Bering Strasse. Mean scale, 1: 3,400,000.
Size, 19.2 × 24.8 cm. XXV. 1879. Pl. 8.

1121. Originalkarte der neuesten Schiffskurse
durch das Karische Meer in die Mündungsbuchten
der Nordsibirischen Flüsse Ob und Jenissei. 1877
& 1878. Scale, 1: 5,000,000. Size, 24.5 × 22.8 cm.
XXV. 1879. Pl. 15.

1122. Die Fahrten des "Willem Barents" im
Europäischen Eismeer, 1878 und 1879. Scale, 1: 16,000,000. Size, 18.1 × 15 cm.

XXVI. 1880. P. 18.
1123. Die Südküste von Franz Josef-Land nach
B. Leigh Smith. Mean scale, 1: 2,000,000. Size,
18.1 × 11.2 cm. XXVI. 1880. P. 464.

1124. Provisorische Karte von Lieut' Schwatka's
Expedition zur Aufsuchung der Reste von Sir John
Franklin's Expedition auf King William Land 1879
& 1880. Nach H. W. Klutschak's Karte. Mean scale,
1: 3,500,000. Size, 18.4 × 24.7 cm.

XXVI. 1880. Pl. 20.
1125. Die Tiefenverhältnisse des Europäischen
Nordmeeres nach den Beobachtungen der norwegi-
schen Nordmeer-Expedition 1876, 1877 und 1878,
sowie der schwedischen Polar-Expeditionen 1868 &
1873, der deutschen Polar-Expeditionen 1868 & 1870,
der dänischen Island-Expeditionen 1877, 78 & 79,
der britischen Expeditionen 1860, 1869 & 1876, der
norwegischen Küstenvermessungen bis 1879, der
holländischen Polar-Expedition 1878 und der öster-
reichisch-ungarischen Polar-Expedition 1871-1874
bearbeitet und gezeichnet von H. Mohn. 1879.
Scale, 1: 7,000,000. Size, 41.5 × 35.5 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.
1126. Salzgehalt der Meeresoberfläche nach H.
Törnøe. Scale, 1: 40,000,000. Size, 6.2 × 6.2 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.
1127. Stickstoffgehalt des Wassers am Boden des
Meeres nach H. Törnøe. Scale, 1: 40,000,000. Size,
6.2 × 6.2 cm. Ergbd. XIV. No. 63. 1880. Pl. 1.

1128. Salzgehalt am Meeresboden nach H. Törnøe.
Scale, 1: 40,000,000. Size, 6.2 × 6.2 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.
1129. Die Tiefsee-Temperaturen des Europäi-
schen Nordmeeres. Zusammengestellt von H. Mohn.
[8 Isobathytherm. Cartons.] Scale, 1: 25,000,000
Size, (total), 51.9 × 22.7 cm.

Ergbd. XIV. No. 63. 1880. Pl. 2.
1130. Tiefen und See-Temperaturen der Bering-
Strasse, gemessen von W. H. Dall im U. S. C. Sur-
vey Scht "Yukon," 5. Sept. 1880. Scale, 1: 210,000.
Size, 24.5 × 12.1 cm. XXVII. 1881. Pl. 17.

2. Greenland.

(See also 1. NORTH POLAR REGION.)

1131. Das Dänische Grönland. Scale, 1: 15,000,000.
Size, 9.5 × 10.1 cm. [VIII.] 1862. Pl. 9.

1132. Spezialkarte des nördlichen Theiles von
Ost-Grönland von A. Petermann. Scale, 1: 1,700,000.
Size, 19.5 × 24.8 cm. [XIV.] 1868. Pl. 17.

1133. Spezialkarte des nördlichen Theiles von
Ost-Grönland nach den Aufnahmen von Clavering &
Sabine 1823 von A. Petermann. Zur Orientierung
der Forschungen der Deutschen Expedition 1869-70.
Scale, 1: 1,700,000. Size, 19.2 × 24.5 cm.

XVI. 1870. Pl. 21.
1134. Karte des nördlichen Theiles von Ost-
Grönland nach den Aufnahmen von Clavering &
Sabine 1823 von A. Petermann. Zur Orientierung
der Forschungen der Deutschen Expedition 1869-70.
Scale, 1: 1,700,000. Size, 19.6 × 33.1 cm.

XVII. 1871. Pl. 10.
1135. Originalkarte der Trift der Amerikani-
schen Nordpolar-Expedition unter Kapitän C. F.
Hall 1872-3 von 800 bis 530 Nördl. Breite, und
Standpunkt der Kenntniss von West-Grönland und
dem arktischen Nordost-Amerika in 1873. Von A.
Petermann. Scale, 1: 6,500,000. Size, 19.9 × 53 cm.

Die neuesten Entdeckungen im arktischen Nord-Amerika.
Scale, 1: 6,500,000. Size, 6.4 × 4 cm.

XIX. 1873. Pl. 20.
1136. Upernivik, der nördlichste permanent be-
wohnte Handels-Hafen der Welt. Nach Admiral
Inglefield's Aufnahme 1854. Scale, 1: 150,000.
Size, 3.7 × 2.3 cm. XIX. 1873. Pl. 20.

1137. Geognostische Übersichts-Karte der Kü-
sten des Waigattes in Nord-Grönland von J. G. Rohde
& K. J. V. Steenstrup. Scale, 1: 710,000. Size, 19.2
× 24.7 cm. XX. 1874. Pl. 7.

1138. Die Westküste Grönlands zwischen Godt-
haab und Frederikshaab. Nach den Aufnahmen
des Marinelieutenants J. A. D. Jensen. Scale, 1: 1,000,000.
Size, 18.6 × 25 cm.

XXVI. 1880. Pl. 5.
1139. Skizze von Grönland zur Übersicht der
bisher ausgeführten Reisen auf dem Binnen-Eis.
Scale, 1: 14,000,000. Size, 11.6 × 21.1 cm.

XXVI. 1880. Pl. 5.

3. Iceland.

1140. Island. Scale, 1: 6,000,000. Size, 9.6 × 7.8 cm.
[VIII.] 1862. Pl. 9.

1141. Island. (Physikalisch u. Administrativ.)
Scale, 1: 6,000,000. Size, 9.6 × 7.8 cm.
[VIII.] 1862. Pl. 9.

4. Spitzbergen.

1142. Karte des nordöstlichen Theiles von
Spitzbergen. Nach den Aufnahmen der Swedischen
Expedition 1861. Von A. Petermann. Scale, 1: 1,000,000.
Size, 19 × 24.6 cm. [X.] 1864. Pl. 6.

1143. Geologische Übersicht [des nordöstlichen
Theiles von Spitzbergen]. Scale, [1: 2,000,000].
Size, 8.7 × 9.6 cm. [X.] 1864. Pl. 6.

1144. Plan der Steinkohlenlager in der Kings-
Bai, Spitzbergen. Scale, 1: 100,000. Size, 6.4 × 4.4 cm.
[XI.] 1865. P. 191.

1145. Originalkarte von Spitzbergen. Hauptsächlich
nach den Schwedischen Aufnahmen 1861-1864.
Von N. Dunér & A. E. Nordenskjöld. Scale, 1: 2,200,000.
Size, 19.1 × 24.6 cm.

Ergbd. IV. No. 16. 1865. Pl. 2.
1146. Special-Karte des Nord-Westlichsten
Theiles von Spitzbergen. Scale, 1: 500,000. Size,
8.8 × 9.5 cm. Ergbd. VI. No. 26. 1869. Pl. 2.

1147. Originalkarte von Ost-Spitzbergen zur
Übersicht von Th. v. Heuglin's Aufnahmen, 1870
(der Heuglin-Zeil'schen Expedition). Mit Be-
nutzung der Aufnahmen & Karten von Dunér,
Nordenskjöld, Pellham, G. v. Keulen, Lamont, u. A.
Von A. Petermann. Scale, 1: 800,000. Size, 31.6 × 25.2 cm.
XVII. 1871. Pl. 9.

1148. Lamont's Reise, Mai-Aug. 1871. Construiert nach seinem Tagebuche von A. Petermann. Originalkarte der 1. Deutschen Nordpolar-Expedition, 1868. Nach dem Tagebuche K. Koldewey's construiert von A. Petermann. Scale, 1 : 5,000,000. Size, 32.9 × 48.4 cm. XVII. 1871. Pl. 22.

1149. Die Aufnahmen der 1. Deutschen Nordpolar-Expedition in Nordost-Spitzbergen, August & September 1868. Nach der Zeichnung & Beschreibung K. Koldewey's, sowie nach den Schwedischen & Englischen Aufnahmen zusammengestellt von A. Petermann. Scale, 1 : 400,000. Size, 19.1 × 24.5 cm.

Ergbd. VI. No. 28. 1871. Pl. 2.

1150. Originalkarte zur Übersicht der Reisen von Smyth, Ulve, Torkildsen, 1871, des Seeboden-Reliefs bei Nord-Europa und Spitzbergen, und des Standpunktes der geographischen Kenntniss von Spitzbergen, König-Karl-Land und Gillis-Land im Jahre 1872. Von A. Petermann. Mean scale, 1 : 2,500,000. Size, 27.5 × 52.7 cm.

XVIII. 1872. Pl. 5.

1151. Karte des nordöstlichen Theiles von Spitzbergen. Nach den Aufnahmen der Schwedischen Expedition 1861. Von A. Petermann. Smyth's & Ulve's Reise im Nordosten von Spitzbergen, und ihre Aufnahmen im Nord-Ost-Lande Aug. & Sept. 1871. Nach Kapt. Ulve's Journal & Kartenzeichnungen von A. Petermann. Scale, 1 : 1,000,000. Size, 31.7 × 24.6 cm. XVIII. 1872. Pl. 6.

1152. Originalkarte zur Übersicht der Expeditionen von Zeil, Heuglin, Rosenthal nach Spitzbergen & Nowaja Semlja 1870-71. Von A. Petermann. Mean scale, 1 : 5,000,000. Size, 31 × 24.4 cm.

XVIII. 1872. Pl. 14.

1153. Skizze des Horn-Sundes mittelst Compass & Logline aufgenommen von K. K. Contre-Admiral Maxim. Freiherrn von Sterneck & Ehrenstein 1872. Scale, 1 : 200,000. Size, 11 × 8.3 cm.

XX. 1874. Pl. 4.

5. Nowaja Semlja and the Kara Sea.

1154. Specialkarte von Nowaja-Semlja. Nach den Russischen Original-Karten zusammengestellt von A. Petermann, 1867. Scale, 1 : 1,700,000. Size, 24.7 × 43.2 cm. Ergbd. V. No. 21. 1867. Pl. 2.

1155. Fahrt des Capt. E. H. Johannesen aus Tromsø im Karischen Meere im Sommer 1869. Von A. Petermann. Scale, 1 : 4,000,000. Size, 19.1 × 24.8 cm. XVI. 1870. Pl. 11.

1156. Norwegische Fahrten im Karischen Meere und westl. von Nowaja Semlja im Sommer 1870. Nebst Darstellung der Tiefen-Verhältnisse. Nach den Norwegischen und anderen bisherigen Messungen. Von A. Petermann. Scale, 1 : 3,000,000. Size, 24.7 × 31.6 cm. XVII. 1871. Pl. 5.

1157. Die Temperatur-Verhältnisse im Karischen Meere und westl. von Nowaja Semlja im Sommer. Nach den Beobachtungen Norwegischer Seeleute in 1870 und Dr. Bessels' 1869. von A. Petermann. Scale, 1 : 3,000,000. Size, 24.8 × 31.5 cm. XVII. 1871. Pl. 6.

1158. Kapt. E. H. Johannesen's Umfahrung von Nowaja Semlja im September 1870, nach der Karte von J. C. Hansen. Nebst Darstellung der Obi- & Jenisei-Mündungen nach den Russischen Aufnahmen. Von A. Petermann. Mean scale, 1 : 4,000,000. Size, 31.6 × 24.3 cm. XVII. 1871. Pl. 12.

1159. A Rosenthal's Expedition nach Nowaja Semlja 1871. Zusammengestellt von A. Petermann.

a. Matotschkin Scharr nach den Russischen Aufnahmen und den Beobachtungen von A. Rosenthal's Expedition 1871. Scale, 1 : 500,000. Size, 19.7 × 10 cm.

b. Die Karische & Jugorsche Strasse mit der Waigatsch Insel nach den Russischen Aufnahmen und Messungen von A. Rosenthal's Expedition 1871. Scale, 1 : 500,000. Size, 28.9 × 23.9 cm.

c. Die Beluslja Bucht und Meta Bai nach den Beobachtungen von Rosenthal's Expedition 1871. Scale, 1 : 250,000. Size, 10.6 × 14 cm.

d. Die Nechwatowa See'n nach den Beobachtungen von A. Rosenthal's Expedition 1871. Scale, 1 : 250,000. Size, 11.8 × 14 cm.

XVIII. 1872. Pl. 4.

1160. Originalkarte zur Übersicht der Expeditionen von Zeil, Heuglin, Rosenthal nach Spitzbergen & Nowaja Semlja 1870-71. Von A. Petermann. Mean scale, 1 : 5,000,000. Size, 31 × 24.4 cm.

XVIII. 1872. Pl. 14.

1161. Originalkarte zum Nachweis der Schiffbarkeit des Sibirischen Eismeeres um Nowaja Semlja in den Monaten Juni bis September und Oktober. Nach den Fahrten der Gebrüder Johannesen, Mack, Tobiesen, Isaksen, Dörma, Carlsen, Weyprecht, Payer, Rosenthal's Expedition u. a. von A. Petermann. Mean scale, 1 : 3,500,000. Size, 31.1 × 24.1 cm.

XVIII. 1872. Pl. 19.

1162. Originalkarte zur Übersicht der neuen Norwegischen Aufnahmen (von 1871) des nordöstlichen Theiles von Nowaja Semlja durch Mack, Dörma, Carlsen u. a. und der Schiffbarkeit der umliegenden Meere in 5 Monaten des Jahres. Von A. Petermann. Mean scale, 1 : 720,000. Size, 42.6 × 24.6 cm. XVIII. 1872. Pl. 20.

1163. Graf Wilczek's Polar-Expedition 1872. Aufnahmen in Nowaja Semlja von Professor Hanns Höfer.

1. Das Land im Südwesten des Matotschkin Scharr's. Scale, 1 : 150,000. Size, 20.7 × 24.2 cm.

2. Die Delphin & Rogatschew-Buchten an der Südküste des Gänselandes. Scale, 1 : 250,000. Size, 21.8 × 24.2 cm.

3. Die Barents-Insel. (Nordküste von Nowaja Semlja.) Scale, 1 : 150,000. Size, 12.1 × 8.6 cm.

XX. 1874. Pl. 16.

1164. Originalkarte von C. Weyprecht's Peilungen der Nordküste von Nowaja Semlja Sept. & Okt. 1872. Mean scale, 1 : 720,000. Size, 30.9 × 14.1 cm.

XXI. 1875. Pl. 20.

1165. Versuch der Verbindung von C. Weyprecht's Bestimmungen mit dem Detail der Norwegischen Küsten-Aufnahme von 1871. Von A. Petermann. Mean scale, 1 : 720,000. Size, 30.9 × 13.6 cm. XXI. 1875. Pl. 20.

1166. Das Mündungs-Gebiet des Ob und Jenissei. Mit Benutzung von Nordenskiöld's Messungen von A. Petermann : Nordenskiöld's neueste Reise zum Jenissei Juli-Sept. 1876. Reise von Finsch, Brehm, Zeil am untern Ob, Juli & Aug. 1876. Scale, 1 : 5,000,000. Size, 31 × 24.7 cm.

XXII. 1876. Pl. 23.

1167. Originalkarte der neuesten Schiffskurse durch das Karische Meer in die Mündungsbuchten der Nordsibirischen Flüsse Ob und Jenissei. 1877 & 1878. Scale, 1 : 5,000,000. Size, 24.5 × 22.8 cm.

XXV. 1879. Pl. 15.

6. South Polar Region.

1168. Karte der arktischen und antarktischen Regionen zur Übersicht des geographischen Standpunktes, im J. 1865, der Meeresströmungen &c. Von A. Petermann. Scale, 1 : 60,000,000. Size, (diam.), 25.3 cm. [XI.] 1865. Pl. 5.

1169. Fünf Cartons zur Veranschaulichung der Veränderlichkeit und Unbeständigkeit des Polareises, nach den Expedition von Cook 1773, Bellingshausen 1820, Balleny 1839, Wilkes 1840, J. C. Ross 1841 bis 1842. Size, each, 4.5 × 3.4 cm.

[XI.] 1865. Pl. 5.

1170. Karte der arktischen & antarktischen Regionen, zur Übersicht der Entdeckungsgeschichte. Von A. Petermann. Scale, 1 : 40,000,000. Size, (diam.), 22.6 × 23.3 cm.

Ergbd. IV. No. 16. 1865. Pl. 1.

1171. Karte der arktischen und antarktischen Regionen zur Übersicht der Entdeckungsgeschichte. Von A. Petermann. Scale, 1 : 40,000,000. Size, (diam.), 22.7 × 23.1 cm.

[XIV.] 1868. Pl. 12.

1172. Kurs der Challenger Expedition vom Cap der Guten Hoffnung bis Melbourne 17. Dez. 1873–17. März 1874. Nach den offiziellen Berichten von A. Petermann. Scale, 1 : 36,000,000. Size, 30.6 × 14.4 cm.

XX. 1874. Pl. 24.

X. OCEANS AND SINGLE ISLANDS.

1. Atlantic Ocean.

1173. Die Orkney und Shetland Inseln. Nach Aufnahmen der Britischen Admiralität und anderen Quellen von A. Petermann. Scale, 1 : 1,000,000. Size, 19.1 × 24.5 cm.

[I.] 1855. Pl. 6.

1174. Die Insel Tristan da Cunha nach den Vermessungen des Capt. Denham, R. N., F. R. S., &c., 1852. Scale, 1 : 112,500. Size, 18.8 × 24.4 cm.

[I.] 1855. Pl. 7.

1175. Plan von der Ansiedlung auf Tristan da Cunha (im doppelten Maassstabe der Karte). Scale, 1 : 56,250. Size, 5.7 × 4.6 cm.

[I.] 1855. Pl. 7.

1176. Skizze eines Theiles des Süd-Atlantischen Oceans zur Orientirung der Tristan da Cunha Gruppe. Equatorial scale, 1 : 120,000,000. Size, 5.6 × 4.6 cm.

[I.] 1855. Pl. 7.

1177. Karte der Tiefen-Messungen im Atlantischen Ocean zur Anlage eines submarinen Telegraphen zwischen Europa und Amerika. (Mit Profil). Von A. Petermann. Scale, 1 : 24,000,000. Size, 17.8 × 6 cm.

[II.] 1856. P. 377.

1178. Das Telegraphen-Plateau des Nord-Atlantischen Oceans. Nach einer handschriftlichen Skizze von Lieut. Maury, gez. von A. Petermann. Karte der Tiefen-Messungen Lieut. Berryman's im Amerik. Dampfer "Arctic" August 1856. Scale, 1 : 24,000,000. Size, 19 × 5.2 cm.

[III.] 1857. Pl. 24.

1179. Island. Scale, 1 : 6,000,000. Size, 9.6 × 7.8 cm.

[VIII.] 1862. Pl. 9.

1180. Island. (Physikalisch u. Administrativ). Scale, 1 : 6,000,000. Size, 9.6 × 7.8 cm.

[VIII.] 1862. Pl. 9.

1181. Die Fär-Öer. Scale, 1 : 1,500,000. Size, 6.6 × 7.7 cm.

[VIII.] 1862. Pl. 9.

1182. Sturmkarten des Atlantischen Oceans [in 4 Kärtchen]. Von K. F. R. Andrau. Scale, 1 : 140,000,000. Size, 19.1 × 24.5 cm.

[VIII.] 1862. Pl. 15.

1183. Die Meeres-Temperatur des Grönländischen Meeres nach den Beobachtungen der ersten Deutschen Nordpolar-Expedition 1868. Von W. von Freeden, Direktor der Norddeutschen Seewarte. Scale, 1 : 10,000,000. Size, 19.1 × 24.8 cm.

XV. 1869. Pl. 11.

1184. Der Golfstrom im Sommer (Juli) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre

1870. Von A. Petermann. Mean scale, 1 : 20,000,000. Size, 31.6 × 24.7 cm. XVI. 1870. Pl. 12.

1185. Der Golfstrom im Winter (Januar) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre 1870. Von A. Petermann. Mean scale, 1 : 20,000,000. Size, 31.3 × 24.9 cm. XVI. 1870. Pl. 13.

1186. Der Seeboden an der Atlantischen Küste der Vereinigten Staaten von Nordamerika. Nach den Untersuchungen der Nordamerikanischen Coast Survey von L. F. de Pourtales. Scale, 1 : 10,000,000. Size, 13.4 × 24.6 cm. XVI. 1870. Pl. 20.

1187. Der Seeboden bei Long Island. Scale, 1 : 2,000,000. Size, 17.1 × 12.3 cm.

XVI. 1870. Pl. 20.

1188. Der Seeboden zwischen Florida und Cuba. Scale, 1 : 3,000,000. Size, 17.1 × 12.3 cm.

XVI. 1870. Pl. 20.

1189. Originalkarte zur Übersicht der Reisen von Smyth, Ulve, Torkildsen, 1871, des Seeboden-Reliefs bei Nord-Europa und Spitzbergen, und des Standpunktes der geographischen Kenntniss von Spitzbergen, König-Karl-Land und Gillis-Land im Jahre 1872. Von A. Petermann. Mean scale, 1 : 2,500,000. Size, 27.5 × 52.7 cm.

XVII. 1872. Pl. 5.

1190. Die Challenger-Expedition 21. Dez. 1872–27. Juli 1873, und Übersicht der Tiefenmessungen im Nordatlantischen Ocean. Von A. Petermann. Mean scale, 1 : 25,000,000. Size, 31.1 × 24.4 cm.

XIX. 1873. Pl. 24.

1191. Kurs der Challenger-Expedition 21. Dez. 1872–28. Okt. 1873. Von A. Petermann. Equatorial scale, 1 : 100,000,000. Size, 11.1 × 13 cm.

XX. 1874. Pl. 15.

1192. Die Temperaturverhältnisse im Meere zwischen Norwegen, Schottland, Island & Spitzbergen. Von H. Mohn. Mean scale, 1 : 30,000,000. Size, 31 × 24.5 cm.

XXII. 1876. Pl. 22.

1193. Übersichtskarte der Eismeertiefe. Scale, 1 : 40,000,000. Size, 5.9 × 7.8 cm.

XXIV. 1878. Pl. 1.

1194. Die Seefischerei-Gebiete Europa's, nebst Angabe der wichtigsten Fischerhäfen. Scale, 1 : 12,000,000. Size, 24.4 × 32.1 cm.

Ergbd. XIII. No. 60. 1880.

1195. Die wichtigsten Fischerei-Gründe und Häfen der Nordsee. Scale, 1 : 6,000,000. Size, 9.2 × 7.8 cm.

Ergbd. XIII. No. 60. 1880.

1196. Die Tiefenverhältnisse des Europäischen Nordmeeres nach den Beobachtungen der Norwegischen Nordmeer-Expedition 1876, 1877 und 1878, sowie der Schwedischen Polar-Expeditionen 1868 & 1873, der Deutschen Polar-Expeditionen 1868 & 1870, der Dänischen Island-Expeditionen 1877, 78 & 79, der Britischen Expeditionen 1860, 1869 & 1876, der Norwegischen Küstenvermessungen bis 1879, der Holländischen Polar Expedition 1878 und der Österreichisch-Ungarischen Polar-Expedition 1871–1874, bearbeitet und gezeichnet von H. Mohn. 1879. Scale, 1 : 7,000,000. Size, 41.5 × 35.5 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.

1197. Salzgehalt der Meeresoberfläche nach H. Tornøe. Scale, 1 : 40,000,000. Size, 6.2 × 6.2 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.

1198. Stickstoffgehalt des Wassers am Boden des Meeres nach H. Tornøe. Scale, 1 : 40,000,000. Size, 6.2 × 6.2 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.

1199. Salzgehalt am Meeresboden nach H. Tornøe. Scale, 1 : 40,000,000. Size, 6.2 × 6.2 cm.

Ergbd. XIV. No. 63. 1880. Pl. 1.

1200. Die Tiefsee-Temperaturen des Europäischen Nordmeeres. Zusammengestellt von H. Mohn,

[8 Isobathytherm-Cartons]. Scale, 1 : 25,000,000. Size, (total), 51.9 × 22.7 cm.

Ergbd. XIV. No. 63. 1880. Pl. 2.

1201. Tiefenkarte des Caribäischen Meeres. Scale, 1 : 18,000,000. Size, 18 × 19.1 cm.

XXVII. 1881. P. 311.

2. Mediterranean Sea.

1202. Europäische Inseln [Corsica & Sardinia] zum Vergleich [mit den Inseln der Central-Gruppen von Polynesen]. Scale, 1 : 15,500,000. Size, 2.5 × 3.7 cm.

[III.] 1857. Pl. 2.

1203. Übersichts-Skizze des Adriatischen Meeres. Scale, 1 : 5,000,000. Size, 7.4 × 16 cm.

[V.] 1859. Pl. 13.

1204. Candie. Scale, [ca. 1 : 2,300,000]. Size, 11.7 × 4.7 cm.

Ergbd. [I.] [No. 4.] 1861.

1205. Orographisch-physikalische Karte von Kandia oder Kreta. Nach den Aufnahmen von Kapitän T. Spratt. 1852. Von A. Petermann. Scale, 1 : 650,000. Size, 42.9 × 24.6 cm.

[XI.] 1865. Pl. 13.

1206. Übersicht des vulkanischen Herdes im Mittelmeer. Von A. Petermann. Scale, 1 : 15,000,000. Size, 19.1 × 8.1 cm.

[XII.] 1866. Pl. 7.

1207. Ethnographische Karte von Kandia oder Kreta. Nach den Angaben von Pashley und Spratt. Von A. Petermann. Scale, 1 : 650,000. Size, 43 × 24.7 cm.

[XII.] 1866. Pl. 16.

1208. Malta, zum Vergleich [mit der Insel Kerguelen]. Scale, 1 : 500,000. Size, 4.8 × 3.9 cm.

XX. 1875. Pl. 7.

1209. Die jährlichen Niederschlagsmengen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.9 × 16.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 1.

1210. Die sommerlichen Niederschlagsmengen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.9 × 16.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 1.

1211. Die Jahres-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 8.6 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.

1212. Die Januar-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 7.4 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.

1213. Die Juli-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 7.9 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.

1214. Die mittleren Jahres-Temperaturen und die klimatischen Gebiete der Mittelmeerländer. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.8 × 16.9 cm.

Ergbd. XIII. No. 58. 1879. Pl. 3.

1215. Die Januar-Temperaturen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.8 × 15.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 3.

3. Indian Ocean.

1216. Die Inseln des südl. Indischen Oceans, meist nach Englischen Aufnahmen zusammengestellt von A. Petermann. Scale, 1 : 23,000,000. Size, 19.1 × 13.8 cm.

a. Insel St. Paul (Umriss Skizze) nach Blackwood. Scale, 1 : 100,000. Size, 4.1 × 4.4 cm.

b. Insel St. Paul nach Denham's Aufnahme u. andern Quellen. Scale, 1 : 100,000. Size, 4.1 × 4.4 cm.

[IV.] 1853. Pl. 1.

1217. Kerguelen Insel nach den Englischen Aufnahmen von Cook (1777), Rhodes (1799), & Ross (1840) gez. von B. Hassenstein. Scale, 1 : 1,600,000. Size, 10.1 × 10.7 cm.

[IV.] 1853. Pl. 1.

1218. Die Macdonald- oder König Max-Inseln. Scale, 1 : 23,000,000 cm.

1. Heard, 25. November 1853. Size, 4.8 × 3.9 cm.

2. Macdonald, 3. Jan' 1854. Size, 4.8 × 3.4 cm.

3. Hutton, 1. Decbr. 1854. Size, 4.8 × 3.4 cm.

4. Attways, 3. Decbr. 1854. Size, 4.3 × 3.8 cm.

5. Rees, 4. December. 1854. Size, 4.3 × 3.4 cm.

6. Neumayer, 9. Jan' 1857. Size, 4.3 × 3.4 cm.

[IV.] 1853. Pl. 1.

1219. Aufnahme der Insel Minicoy an der Dampferlinie Aden-Ceylon. Von Capt. J. P. Basevi. Scale, 1 : 50,000. Size, 19.2 × 24.6 cm.

XVIII. 1872. Pl. 16.

1220. Heard und McDonald Inseln nach den Aufnahmen von Capt. G. S. Nares der Challenger Expedition 1874. Scale, 1 : 325,000. Size, 30.6 × 10 cm.

XX. 1874. Pl. 24.

1221. Kurs der Challenger Expedition vom Cap der Guten Hoffnung bis Melbourne 17. Dez. 1873-17. März 1874. Nach den officiellen Berichten von A. Petermann. Scale, 1 : 36,000,000. Size, 30.6 × 14.4 cm.

XX. 1874. Pl. 24.

1222. Kerguelen Insel, hauptsächlich nach den Aufnahmen von Kerguelen, Cook, Rhodes, Ross, Nares 1772-1874. Reduktion der Engl. Admiraltätskarte No. 2398. Von A. Petermann. Scale, 1 : 500,000. Size, 31 × 24.6 cm.

Malta, zum Vergleich. Scale, 1 : 500,000. Size, 4.8 × 3.9 cm.

XXI. 1875. Pl. 7.

1223. Specialkarte der Insel Nias, hauptsächlich nach den Aufnahmen von J. T. R. Nagel, der Karte von Rosenberg & Details von E. J. Sillem, von A. Petermann. Scale, 1 : 360,000. Size, 22.7 × 36 cm.

XXIV. 1878. Pl. 5.

1224. Die Insel Rodriguez. Scale, 1 : 150,000. Size, 17.7 × 17.6 cm.

XXVI. 1880. P. 285.

4. Pacific Ocean.

(See also VI. POLYNESIA.)

1225. Der Grosse Ocean. Gezeichnet von A. Petermann. Scale, 1 : 50-30,000,000. Size, 40.4 × 32.7 cm.

[III.] 1857. Pl. 1.

1226. Das Korallen Meer. Scale, 1 : 30,000,000.

Size, 8.7 × 7.2 cm.

[VII.] 1861. Pl. 3.

1227. Die durch das Erdbeben in Peru, 13. August 1868, erzeugte Erdbeben-Fluth im Pacificischen Ocean, 13-16. August 1868, dargestellt von Dr. Ferdinand von Hochstetter. Equatorial scale, 1 : 70,000,000. Size, 24.8 × 19.1 cm.

XV. 1869. Pl. 12.

1228. Polynesen und der Grosse Ocean. Von A. Petermann. Zur Ethnographischen Übersicht von Dr. G. Gerland. Scale, 1 : 40,000,000. Size, 42.4 × 24.1 cm.

XVIII. 1872. Pl. 8.

1229. Tiefenkarte des Grossen Oceans. Von A. Petermann. Mean scale, 1 : 36,300,000. Size, 53 × 43.3 cm.

XXIII. 1877. Pl. 7.

1230. Originalkarte von Kauai, Niihau &c. [Hawaii-Gruppe]. Mit Benutzung von Daten von F. Birgham von A. Petermann. Scale, 1 : 600,000. Size, 24.8 × 19.3 cm.

XXIV. 1878. Pl. 15.

XI. MISCELLANEOUS.

1. Astronomical.

1231. Das Mare Crisium der Mond-Oberfläche, nach den Aufnahmen des Professor Piazzi Smyth. Scale, 1 : 1,397,000.

a. Bei Neumond. Size, 17.2 × 23.1 cm. Pl. 13.

b. Bei Vollmond. Size, 17.4 × 23.1 cm. Pl. 14.

c. Bei Abnehmendem Mond. Size, 17.3 × 23.1 cm. Pl. 15.

[IV.] 1858. Pl. 13-15.

2. Trigonometrical.

1232. Übersicht der Russisch-Skandinavischen Gradmessung zwischen der Donau und dem Nord-Kap. Gez. von B. Hassenstein. Scale, 1 : 11,600,000. Size, 6.4 × 24.6 cm. [III.] 1857. Pl. 14.

1233. Skizze von Finnland zur Übersicht der Gradmessungs-Punkte &c. Scale, 1 : 11,600,000. Size, 6.7 × 10.5 cm. [V.] 1859. Pl. 5.

3. Meteorological.

1234. Skizze zur Übersicht der Längen- und Höhen-Ausdehnung der Englischen wissenschaftlichen Luft-Schiffahrten im Jahre 1852. Scale, [ca. 1 : 2,000,000]. Size, 7.9 × 7.5 cm. [II.] 1856. P. 333.

1235. Skizze des geogr. Verbreitung des Moor-rauches im Mai 1857, nach Dr. Prestel's Angaben. Scale, 1 : 10,500,000. Size, 8.8 × 7.5 cm. [IV.] 1858. P. 106.

1236. Regenkarte der Erde, nach A. Mühry's Untersuchungen und Skizzen gezeichnet von A. Petermann. Equatorial scale, 1 : 230,000,000. Size, 17.6 × 11.6 cm. [VI.] 1860. P. 1.

1237. Isogonische Linien (Declination) in Indien und Hochasien nach v. Schlaginweit. Scale, 1 : 50,200,000. Size, 8.2 × 9.6 cm. [VII.] 1861. Pl. 10.

1238. Isoclinische Linien (Inclination) in Indien und Hochasien nach v. Schlaginweit. Scale, 1 : 50,200,000. Size, 8.2 × 9.6 cm. [VII.] 1861. Pl. 10.

1239. Isodynamische Linien (Intensität) in Indien und Hochasien nach v. Schlaginweit. Scale, 1 : 50,200,000. Size, 8.2 × 9.6 cm. [VII.] 1861. Pl. 10.

1240. Isodynamische Linien (Horizontale Intensität) in Indien und Hochasien nach v. Schlaginweit. Scale, 1 : 50,200,000. Size, 8.9 × 9.6 cm. [VII.] 1861. Pl. 10.

1241. Diagram zur Veranschaulichung von Andrau's Theorie der Wirbelstürme. Size, (diam.), 7 × 6.9 cm. [VIII.] 1862. P. 401.

1242. Sturmkarten des Atlantischen Oceans [in 4 Kärtchen]. Von K. F. R. Andrau. Scale, 1 : 140,000,000. Size, 19.1 × 24.5 cm. [VIII.] 1862. Pl. 15.

1243. Hyetographische Skizze von Österreich. Scale, 1 : 15,000,000. Size, 9.5 × 6.2 cm. [X.] 1864. Pl. 5.

1244. Klimatographische Skizze von Österreich. Scale, 1 : 15,000,000. Size, 9.4 × 6.2 cm. [X.] 1864. Pl. 5.

1245. Graphische Darstellung von Dr. Kane's Temperatur- und Wind-Beobachtungen in Rensselaer Bai, 1853-55. Size, 19 × 24.6 cm. [XIII.] 1867. Pl. 7.

1246. Die Meeres-Temperatur des Grönländischen Meeres nach den Beobachtungen der ersten

Deutschen Nordpolar-Expedition 1868. Von W. von Freeden, Direktor der Norddeutschen Seewarte. Scale, 1 : 10,000,000. Size, 19.1 × 24.8 cm.

XV. 1869. Pl. 11.

1247. Der Golfstrom im Sommer (Juli) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre 1870. Von A. Petermann. Mean scale, 1 : 20,000,000. Size, 31.6 × 24.7 cm. XVI. 1870. Pl. 12.

1248. Der Golfstrom im Winter (Januar) und Standpunkt der thermometrischen Kenntniss des Nordatlantischen Oceans & Landgebietes im Jahre 1870. Von A. Petermann. Mean scale, 1 : 20,000,000. Size, 31.3 × 24.9 cm. XVI. 1870. Pl. 13.

1249. Die Temperatur-Verhältnisse in den arktischen Regionen. Von A. Petermann.

a. Isothermen des Januar von 2° zu 2° R. Scale, 1 : 36,500,000. Size, (diam.), 24.4 cm.

b. Isothermen des Juli von 2° zu 2° R. (absolute Temperatur). Scale, 1 : 73,000,000. Size, (diam.), 12.2 cm.

c. Isothermen der absoluten Minima von 10° zu 10° R. Scale, 1 : 73,000,000. Size, (diam.), 12.2 cm.

d. Isothermen (Isothermen des Sommer's: Juni, Juli, August) von 2° zu 2° R. (absolute Temperatur). Scale, 1 : 73,000,000. Size, (diam.), 12.2 cm.

e. Isochimenen (Isothermen des Winter's: Dezember, Januar, Februar) von 2° zu 2° R. (absolute Temperatur). Scale, 1 : 73,000,000. Size, (diam.), 12.2 cm.

XVI. 1870. Pl. 14.

1250. Die Temperatur-Verhältnisse im Karischen Meere und westl. von Nowaja Semla im Sommer. Nach den Beobachtungen Norwegischer Seeleute in 1870 und Dr. Bessels' 1869. Von A. Petermann. Scale, 1 : 3,000,000. Size, 24.8 × 31.5 cm. XVII. 1871. Pl. 6.

1251. Karte der geographischen Verbreitung des Nordlichtes. Von H. Fritz. Scale, 1 : 70,000,000. Size, 19.1 × 24.6 cm. XX. 1874. Pl. 18.

1252. Isobaren und Winde im Januar (Erdkarte). Von Dr. A. Wojeikow. Equatorial scale, 1 : 135,000,000. Size, 30.5 × 24.9 cm.

Ergbd. VIII. No. 38. 1874. Pl. 1.

1253. Isobaren und Winde im Juli (Erdkarte). Von Dr. A. Wojeikow. Equatorial scale, 1 : 135,000,000. Size, 30.5 × 24.9 cm.

Ergbd. VIII. No. 38. 1874. Pl. 2.

1254. Regenkarte der Erde. Von Dr. A. Wojeikow. Equatorial scale, 1 : 135,000,000. Size, 30.5 × 24.9 cm. Ergbd. VIII. No. 38. 1874. Pl. 3.

1255. Die Temperaturverhältnisse im Meere zwischen Norwegen, Schottland, Island & Spitzbergen. Von H. Mohn. Mean scale, 1 : 30,000,000. Size, 31 × 24.5 cm. XXII. 1876. Pl. 22.

1256. Welt-Karte zur Übersicht der Luft-Strömungen, Bodenbeschaffenheit &c. Entworfen & gez. von Herm. Berghaus 1867. Nachtr. 1872. Equatorial scale, [1 : 100,000,000]. Size, 37.8 × 24.6 cm.

Ergbd. XI. No. 48. 1876.

1257. Die Vertheilung des Regens über Deutschland nach den Jahreszeiten. Von Dr. J. van Beber. Scale, 1 : 6,300,000. Winter, Frühling, Sommer, Herbst. Size, ea., 17 × 13.5 cm.

XXIV. 1878. Pl. 14.

1258. Temperaturzonen des nördlichen Circumpolarbeckens. Von Alex. Supan. Mean scale, [1 : 36,000,000]. Size, (diam.), 9.5 cm.

XXV. 1879. P. 354.

1259. Die Temperatur-Zonen der Erde. Von Alex. Supan. Equatorial scale, 1 : 135,000,000. Size, 30.9 × 24.7 cm. XXV. 1879. Pl. 18.

1260. Die jährlichen Niederschlagsmengen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.9 × 16.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 1.

1261. Die sommerlichen Niederschlagsmengen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.9 × 16.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 1.
1262. Die Jahres-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 8.6 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.
1263. Die Januar-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 7.4 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.
1264. Die Juli-Isothermen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 25,000,000. Size, 19.5 × 7.9 cm.

Ergbd. XIII. No. 58. 1879. Pl. 2.
1265. Die Januar-Temperaturen des Mittelmeergebietes. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.8 × 15.8 cm.

Ergbd. XIII. No. 58. 1879. Pl. 3.
1266. Die mittleren Jahres-Temperaturen und die klimatischen Gebiete der Mittelmeerländer. Von Theobald Fischer. Scale, 1 : 12,500,000. Size, 41.8 × 16.9 cm.

Ergbd. XIII. No. 58. 1879. Pl. 3.
1267. Die Tiefsee-Temperaturen des Europäischen Nordmeeres. Zusammengestellt von H. Mohn. [8 Isobathytherm-Cartons] Scale, 1 : 25,000,000. Size, (total), 51.9 × 22.7 cm.

Ergbd. XIV. No. 63. 1880. Pl. 2.
1268. Temperatur-Verhältnisse des Russischen Reiches nach H. Wild. Isothermen des Januar. — Isothermen des April. — Isothermen des Juli. — Isothermen des October. — Isothermen des Jahres. — Isoamplituden. Scale, 1 : 60,000,000. Size, 31.6 × 24.6 cm.

XXVII. 1881. Pl. 13.
1269. Tiefen und See-Temperaturen der Bering-Strasse, gemessen von W. H. Dall im U. S. C. Survey Schr. "Yukon," 5. Sept. 1880. Scale, 1 : 210,000. Size, 24.5 × 12.1 cm.

XXVII. 1881. Pl. 17.
1270. Regenzonen im Verbreitungsgebiet der Dattelpalme bei niedrigstem und höchstem Sonnenstande, nebst Angabe der Verbreitungsgebiete von *Chamaerops humilis* und *Hyphaene Argun*, sowie der Polargrenzen von *Hyphaene thebaica* und *Cocos nucifera*. Scale, [ca. 1 : 57,000,000.] Size, 18 × 8.1 cm. Ergbd. XIV. No. 64. 1881. P. 47.

4. Seismological.

VOLCANOES AND EARTHQUAKES.

1271. Karte der wichtigsten habituellen Stossgebiete in Central-Europa. Nach Dr. Volger's Untersuchungen gez. von A. Petermann. Scale, 1 : 2,700,000. Size, 24.3 × 18.9 cm. [II.] 1856. Pl. 6.

1272. Karte zur Übersicht der geographischen Ausdehnung des Erdbebens von Visp am 25. Juli 1855. Nach Dr. Volger's Angaben gezeichnet von A. Petermann. Scale, 2,800,000. Size, 19 × 24.4 cm. [II.] 1856. Pl. 7.

1273. Der Central-Bezirk des Erdbebens von Visp. Scale, [ca. 1 : 700,000.] Size, 3.5 × 6 cm. [II.] 1856. Pl. 7.

1274. Graphische Skizzen zur Darstellung der Ringförmigen Bahn der Erdbeben. Nach Dr. K. J. Clement's Angabe und Hypothese gez. von A. Petermann.

a. Erdbeben 1. April 1853. Scale, [ca. 1 : 4,600,000.] Size, 5.6 × 9.5 cm.

b. Erdbeben 6. Dec 1855. Scale, [ca. 1 : 7,900,000.] Size, 5.6 × 3.5 cm.

c. Erdbeben 1. Nov. 1755. Scale, [ca. 1 : 11,400,000.] Size, 5.6 × 5.7 cm.

d. Erdbeben 12. Oktober 1856. Scale, [ca. 1 : 6,800,000.] Size, 19 × 6.4 cm.

[III.] 1857. Pl. 8.

1275. Skizze zur Übersicht der Vulkan-Ausbrüche und Erdbeben in den Jahren 1855 und 1856. Equatorial scale, 1 : 230,000,000. Size, 17.9 × 9.8 cm.

[IV.] 1858. P. 236.
1276. Der Isthmus von Auckland mit seinen erloschenen Vulkankegeln von Dr. Ferdinand von Hochstetter 1859. Die Zeichnung und geographische Grundlage (hauptsächlich nach den Aufnahmen von Stokes und Drury) von A. Petermann. Scale, 1 : 120,000. Size, 19.1 × 24.5 cm.

[VIII.] 1862. Pl. 6.
1277. Der Etna und seine Umgebung, aufgenommen von W. Sartorius von Waltershausen 1835-43. Scale, 1 : 500,000. Size, 9.2 × 9.6 cm.

[X.] 1864. Pl. 4.
1278. Der Vulkan Turrialba in Costarica von Dr. K. v. Seebach. Scale, 1 : 50,000. Size, 10.5 × 5.3 cm.

[XI.] 1865. Pl. 9.
1279. Plan von Nea und Mikra Kammenisamt Georg I. und Alphroessa, aufgenommen von Herrn Linien-Schiffs-Fähnrich A. Heinze. Scale, [ca. 1 : 63,000.] Size, 12 × 10.7 cm. [XII.] 1866. P. 144.

1280. Übersicht des vulkanischen Heerdes im Mittelmeer. Von A. Petermann. Scale, 1 : 15,000,000. Size, 19.1 × 8.1 cm. [XII.] 1866. Pl. 7.

1281. Santorin oder Thera. Scale, 1 : 500,000. Size, 4.5 × 5.4 cm. [XII.] 1866. Pl. 7.

1282. Neapel und Umgegend. Scale, 1 : 500,000. Size, 16.4 × 12.8 cm. [XII.] 1866. Pl. 7.

1283. Der Krater von Santorin. Nach der Englischen Aufnahme u. Mittheilungen von Dr. Jul. Schmidt von A. Petermann. Scale, 1 : 47,000. Size, 19.2 × 25.1 cm. [XII.] 1866. Pl. 8.

1284. Die durch das Erdbeben in Peru, 13. August 1868, erzeugte Erdbeben-Fluth im Pacificischen Ocean, 13-16. August 1868, dargestellt von Dr. Ferdinand von Hochstetter. Equatorial scale, 1 : 70,000,000. Size, 24.8 × 19.1 cm. XV. 1869. Pl. 12.

1285. Karte von Hawaii. Mit Benutzung der Daten von F. Birgham, red. von A. Petermann. Scale, 1 : 1,000,000. Size, 19.1 × 16.6 cm.

XXII. 1876. Pl. 19.
1286. Der Krater Mokuaweweo auf der Spitze des Mauna Loa [Hawaii], entworfen von F. Birgham. Scale, 1 : 100,000. Size, 9.6 × 8.1 cm.

XXII. 1876. Pl. 19.
1287. Der Krater Kilaua auf dem Abhange des Mauna Loa [Hawaii], entworfen von F. Birgham. Scale, 1 : 100,000. Size, 9.6 × 8.1 cm.

XXII. 1876. Pl. 19.
1288. Topographische Skizze des Fuji-no-yama-Gipfels. Nach Dr. R. v. Drasche und Dr. J. Rein entworfen von B. Hassenstein. Scale, ca. 1 : 12,500. Size, 12.6 × 12.5 cm. XXXV. 1879. P. 369.

5. Geological.

1289. Geologische Karte von Vorder-Indien nach G. B. Greenough, Esq., F. R. S., F. G. S. &c. Scale, 1 : 14,000,000. Size, 20.7 × 24.3 cm.

[I.] 1855. Pl. 3.
1290. Geologische Karte der Vereinigten Staaten und Britischen Provinzen von Nord-Amerika. Von Jules Marcou, Juli 1855. Scale, 1 : 14,000,000. Size, 39.3 × 24.4 cm. [I.] 1855. Pl. 15.

1291. Geologische Übersichts-Karte von Süd-Amerika, nach verschiedenen Quellen zusammengestellt von Franz Foetterle. Die geographische Zeichnung von A. Petermann. Scale, 1 : 25,000,000. Size, 23.3 × 31.3 cm. [II.] 1856. Pl. 11.

1292. Karte eines Theils von Trans-Baikalien. Nach den neuesten Russischen Quellen gez. von A. Petermann. Scale, 1: 2,450,000. Size, 19.3 × 24.6 cm. [III.] 1857. Pl. 6.

1293. Geologische Aufnahmen des Österreichischen Kaiserstaates bis 1858. Scale, 1: 8,000,000. Size, 18.1 × 9.8 cm. [IV.] 1858. P. 313.

1294. Geologische Skizze der Black Hills, nach Hayden's Karte von A. Petermann. Scale, 1: 6,500,000. Size, 9: 6.5 cm. [VI.] 1860. P. 53.

1295. Die Küste von Labrador. Nach den bisherigen Englischen Aufnahmen, den Untersuchungen der Missionäre und handschriftlichen Mittheilungen von Oscar Montgomery Lieber, Geolog der Amerikanischen Expedition nach der Aulezavick Insel im J. 1860, früherem Geolog von Süd-Carolina. Von A. Petermann. Scale, 1: 4,000,000. Size, 19 × 24.7 cm.

Aulezavick und Umgebung nach dem Amerikanischen Aufnahmen. Scale, 1: 1,000,000. Size, 4.3 × 5.4 cm.

[VII.] 1861. Pl. 9.

1296. Geologische Übersichtskarte der Provinz Nelson (Süd-Insel). Nach den Aufnahmen von Dr. Ferdinand von Hochstetter 1859, und Julius Haast 1860. Scale, 1: 1,300,000. Size, 19 × 24.5 cm.

[IX.] 1863. Pl. 1.

1297. Geologische Übersichtskarte des Österreichischen Kaiserstaates. Nach den Übersichts-Aufnahmen der K. K. Geologischen Reichsanstalt in Wien. Scale, 1: 5,250,000. Size, 24.6 × 19 cm.

[IX.] 1863. Pl. 14.

1298. Geologische Skizze von Österreich. Scale, 1: 15,000,000. Size, 9.5 × 6.2 cm.

[X.] 1864. Pl. 5.

1299. Geologische Übersicht [des nordöstlichen Theiles von Spitzbergen]. Scale, [1: 2,000,000]. Size, 8.7 × 9.6 cm. [X.] 1864. Pl. 6.

1300. Plan der Steinkohlenlager in der Kings-Bai, Spitzbergen. Scale, 1: 100,000. Size, 6.4 × 4.4 cm. [XI.] 1865. P. 191.

1301. West-Tasmania nach Charles Gould u. A., von A. Petermann. Scale, 1: 500,000. Size, 18.9 × 24.3 cm. [XI.] 1865. Pl. 3.

1302. Geologische Karte der Provinz Victoria. Nach den offiziellen Aufnahmen unter der Direction von Alfred R. C. Selwyn. Reduzirt von A. Petermann. Scale, 1: 2,000,000. Size, 43 × 24.6 cm.

[XI.] 1865. Pl. 15.

1303. Geologische Kartenskizze [des Adamello-Presanella Gebietes] von J. Trinker. Scale, [ca. 1: 880,000]. Size, ca. 8 × 8.5 cm.

Ergbd. IV. No. 17. 1865. P. 18.

1304. Geognostische Karte des Alleghany-Systems. Nach den vorhandenen Arbeiten sowie eignen Untersuchungen zusammengestellt von Hermann Credner. Die physikalische Grundlage von A. Petermann und E. Sandoz. Scale, 1: 6,000,000. Size, 41.3 × 24.6 cm. XVII. 1871. Pl. 3.

1305. Geognostische Karte der Zillerthaler Alpen. Scale, 1: 400,000. Size, ca. 19 × 24 cm.

Ergbd. VII. No. 32. 1872. Pl. 2.

1306. Erforschung von Nordwest-Texas durch Dr. O. Loew & A. R. Roessler 1872. Scale, 1: 2,500,000. Size, 19.4 × 8.3 cm. XIX. 1873. Pl. 23.

1307. Situationsplan des Naphtha-Berges bei Mendeli in Irak-Arabi. Von Berg-Ingenieur Meissner. Scale, *wanting*. Size, 4.5 × 6.1 cm.

XX. 1874. P. 345.

1308. Geognostische Übersichts-Karte der Küsten des Waigattes in Nord-Grönland von J. G. Rohde & K. J. V. Steenstrup. Scale, 1: 710,000. Size, 19.2 × 24.7 cm. XX. 1874. Pl. 7.

1309. Karte von Kaukasien zur Übersicht der

physikalisch-geographischen Grundzüge und der wichtigsten Minerale. Von A. Petermann. Scale, 1: 3,700,000. Size, 41.3 × 34 cm.

Ergbd. VIII. No. 36. 1874. Pl. 1.

1310. Die Steinkohlenfelder der Vereinigten Staaten von N. A. Nach der Karte von Hitchcock & Blake von A. Petermann. Scale, 1: 13,500,000. Size, 19 × 25.1 cm. XXI. 1875. Pl. 16.

1311. Geologische Übersichts-Karte der Gebirgsgruppe zwischen Rhein- und Ober-Inn-Thal. Nach den besten Quellen zusammengestellt von A. Waltenberger. Scale, 1: 600,000. Size, 19 × 24.7 cm.

Ergbd. IX. No. 40. 1875. Pl. 2.

1312. Europa. Die Verbreitung der sedimentären Formationen in Europa. Nach André Dumont's Carte Géologique de l'Europe von H. Habenicht. Mit Benutzung neuerer Materialien. Von A. Petermann. Scale, 1: 15,000,000. Size, 40.8 × 33.7 cm. XXII. 1876. Pl. 5.

1313. Geologische Übersichtskarte der Černik'schen Expedition [durch die Gebiete des Euphrat und Tigris]. Red. von A. Petermann. Scale, 1: 5,000,000. Size, 19.2 × 12.4 cm.

Ergbd. X. No. 45. 1876. Pl. 3.

1314. Europa während der beiden Eiszeiten. Nach den besten vorhandenen Quellen bearbeitet von H. Habenicht. Scale, 1: 15,000,000. Size, 41.1 × 34 cm.

a. Die Gletscher der Lombardei während der Eiszeiten. Scale, [ca. 1: 3,700,000]. Size, 10.1 × 5.2 cm.

b. Die Gletscher der Schweiz während der Eiszeiten. Scale, [ca. 1: 3,700,000]. Size, 10.2 × 7.3 cm.

XXIV. 1878. Pl. 6.

1315. Darstellungen einiger wichtiger Deltas zur Erläuterung der Gestaltung, des Baues & der Wachsthum-Erscheinungen der Deltabildungen. 1. Lena-Delta. Scale, 1: 3,000,000. Size, 8 × 7.1 cm.; 2. Nil-Delta. Scale, 1: 3,000,000. Size, 8.5 × 7.1 cm.; 3. Mississippi-Delta. Scale, 1: 3,000,000. Size, 9.8 × 6.9 cm.; 4. Delta des Mackenzie. Scale, 1: 3,000,000. Size, 4.2 × 8.4 cm.; 5. Delta des Atrato. Scale, 1: 600,000. Size, 6.2 × 8.4 cm.; 6. Delta des Hwang-Ho & Yang-Tze-Kiang. Scale, 1: 12,000,000. Size, 8.3 × 9.9 cm.; 7. Delta des Seihun und Dschihun. Scale, 1: 600,000. Size, 13.7 × 10.4 cm.; 10. Ehemalige Gestaltung des Delta des Yang-Tze-Kiang. Scale, 1: 12,000,000. Size, 3.7 × 2.2 cm.; 11. Beginnende Abschnürung des Golfes von Smyrna durch das Delta des Gediz Tschai. Scale, 1: 300,000. Size, 8.3 × 4.1 cm.; 12. Abschnürung der Turtle Bai durch das Delta des Trinity River. Scale, 1: 300,000. Size, 2.5 × 3.5 cm.; 13. Zertheilung des Lago di Como durch das Delta der Adda. Scale, 1: 300,000. Size, 6.8 × 4.3 cm.; 14. Landfest gewordene Inseln im Delta des Aspropotamos. Scale, 1: 600,000. Size, 6.2 × 7.1 cm.; 15. Süd-West Pass des Mississippi. Scale, 1: 300,000. Size, 2.5 × 3.4 cm.

Ergbd. XII. No. 56. 1878. Pl. 1.

1316. Übersichts-karte über die geographische Verbreitung der Deltas von Georg Rudolf Credner. Equatorial scale, 1: 135,000,000.

a. Delta der Wolga. Scale, 1: 3,700,000. Size, 3.8 × 5.5 cm.

b. Delta des Ebro. Scale, 1: 1,500,000. Size, 3.9 × 5.1 cm.

c. Delta der Petchora. Scale, 1: 3,700,000. Size, 3.8 × 5.5 cm.

d. Delta der Rewa. Scale, 1: 1,500,000. Size, 3.8 × 5.5 cm.

e. Delta des Kysyl Irmak und Jeschil Irmak. Scale, 1: 3,700,000. Size, 3.8 × 5.5 cm.

f. Delta der Donau. Scale, 1: 3,700,000. Size, 3.8 × 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 2.

1317. Kartographische Darstellung der Niveau-Veränderungen oceanischer Küstenstriche und des Wasserspiegels von Binnensee'n von Georg Rudolf

Credner. Equatorial scale, 1: 135,000,000. Size, 30.6 × 24.2 cm.

a. Die Pässe des Mississippi Delta's. Scale, 1: 500,000. Size, 9.3 × 5.5 cm.

A. Das secundäre Delta des Kilis-Armes am Ausseerande des Donau-Delta's. Scale, 1: 500,000. Size, 9.3 × 5.5 cm.

Ergbd. XII. No. 56. 1878. Pl. 3.

1318. Geologische Karte von Vorder-Indien reduziert von H. B. Medlicott und W. T. Blanford's "Preliminary Sketch of the Geology of India" auf A. Petermann's Karte in 2 Bl. Scale, 1: 7,500,000. Size, 41.2 × 48.8 cm. XXV. 1879. Pl. 21.

1319. Die Goldfelder von Wassa. Entworfen von B. Hassenstein. Scale, 1: 750,000. Size, 8.5 × 15.9 cm. XXVI. 1880. P. 177.

1320. Geologische Karte der Queen Charlotte Islands nach George M. Dawson's Aufnahmen, 1878. Scale, 1: 1,100,000. Size, 19.5 × 23.9 cm.

Skidegate Inlet nach den Vermessungen von J. Richardson 1872 und G. M. Dawson 1878. Scale, 1: 350,000. Size, 11.3 × 5.4 cm.

XXVI. 1881. Pl. 16.

6. Botanical.

1321. Die Wälder Siebenbürgens nach Andreas Mersich. Scale, 1: 3,400,000. Size, 9.5 × 8.5 cm.

[III.] 1857. Pl. 25.

1322. Die Vegetations-Gebiete der Erde. Von Prof. Dr. A. Grisebach. (Geogr. Grundlage: Berghaus' Erdkarte in Stieler's Hand-Atlas.) Cartons von A. Petermann. Equatorial scale, 1: 111,000,000. Size, 38 × 24.9 cm. [XII.] 1866. Pl. 3.

1323. Kultur-Karte von Java hauptsächlich nach Dr. F. Junghuhn. Von A. Petermann. Scale, 1: 2,600,000. Size, 42.1 × 15.1 cm.

[XII.] 1866. Pl. 18.

1324. Phyto-geographische Karte des Nilgebietes und der Uferländer des Rothen Meeres nach älteren und neueren Quellen entworfen und gezeichnet von Dr. G. Schweinfurth 1867. Scale, 1: 10,000,000. Size, 22.7 × 33.4 cm. [XIV.] 1868. Pl. 9.

1325. Vergleichende Übersicht der [dem Nilgebiet] benachbarten Florengebiete. Scale, [ca. 1: 140,000,000]. Size, 8.6 × 3.7 cm. [XIV.] 1868. Pl. 9.

1326. Der Rennstieg im Thüringer Wald und die Verbreitung der Laubmoose in Thüringen. Von A. Röse. Scale, 1: 925,000. Size, 19.1 × 24.2 cm.

[XIV.] 1868. Pl. 19.

1327. Die geographische Verbreitung der See-gräser. [Hydrocharitaceae Potameae.] Von Dr. P. Ascherson. Equatorial scale, 1: 220,000,000. Size: Hydrocharitaceae, 18.8 × 4.8 cm; Potameae, 18.8 × 7.5 cm; Potameae (Schlusa), 18.8 × 11.7 cm.

XXVII. 1871. Pl. 13.

1328. Die geographische Verbreitung der Coniferen und Gnetaceen über die Erde. Von Dr. Robert Brown. Equatorial scale, 1: 135,000,000. Size, 30.6 × 24.8 cm.

XVIII. 1872. Pl. 3.

1329. Verbreitung der Wälder in Kaukasien. Von A. Petermann. Scale, 1: 7,500,000. Size, 19.2 × 12.4 cm. Ergbd. VIII. No. 36. 1874. Pl. 2.

1330. Die geographische Verbreitung der Palmen auf der Erde. Von Dr. O. Drude. Equatorial scale, 1: 135,000,000. Verbreitung im Allgemeinen & Dichtigkeit. Verbreitung der Tribus. Size, each, 30.9 × 12.2 cm. XXIV. 1878. Pl. 2.

1331. Die Waldungen des Bayerischen Spessart. Von Oberförster Dr. R. Weber. Scale, 1: 200,000. Size, 24.5 × 30.9 cm. XXVI. 1880. Pl. 10.

1332. Phänologische Karte von Mittel-Europa, bezogen auf die April-Blüthen von Giessen. Von Prof. Dr. H. Hoffmann. Scale, 1: 3,700,000. Size, 38.2 × 31.1 cm. XXVII. 1881. Pl. 2.

1333. Regenazonen im Verbreitungsgebiet der Dattelpalme bei niedrigstem und höchstem Sonnenstande, nebst Angabe der Verbreitungsgebiete von Chamaerops humilis und Hyphaene Argun, sowie der Polargrenzen von Hyphaene thebaica und Cocos nucifera. Scale, [ca. 1: 57,000,000]. Size, 18 × 8.1 cm. Ergbd. XIV. No. 64. 1881. P. 47.

1334. Kartenskizze der geographischen Verbreitung der Dattelpalme von Theobald Fischer. Mean scale, 1: 17,000,000. Size, 53.2 × 24 cm.

Ergbd. XIV. No. 64. 1881.

7. Zoölogical.

1335. Papageien-Karte. Kartographische Darstellungen der Verbreitung der Papageien. Nach den Arbeiten von Otto Finsch entw. von A. Petermann. Equatorial scale, 1: 111,000,000.

1. Nachtpapageien (Stringopinae). Size, 4.4 × 8.2 cm.

2. Kakatus (Pictolophinae). Size, 5.7 × 8.2 cm.

3. Sittiche oder langschwänzige Papageien (Sitticinae). Size, 33 × 14.2 cm.

4. Papageien oder kurzschwänzige Papageien (Psittacinae). Size, 20.5 × 10.2 cm.

5. Loris (Trichoglossinae). Size, 13.6 × 10.2 cm.

[XIII.] 1867. Pl. 1.

1336. Zoo-geographische Karte des Nilgebietes und der Uferländer des Rothen Meeres von M. Th. v. Heuglin, 1869. Scale, 1: 10,000,000. Size, 22.6 × 33.2 cm. XV. 1869. Pl. 21.

1337. Geographische Verbreitung der Schmetterlinge über die Erde. Von Gabriel Koch. Red. von A. Petermann. Equatorial scale, 1: 135,000,000. Size, 30.5 × 24.7 cm. XVI. 1870. Pl. 2.

1338. Geographische Verbreitung der Hirsche über die Erde. Genealogie der Verbreitung. Von Dr. G. Jaeger & Dr. E. Bessels. Scale, 1: 100,000,000. Size, 21.6 × 24.5 cm. XVI. 1870. Pl. 6.

1339. Geographische Verbreitung der Hirsche über die Erde. Gegenwärtige Verbreitungsbezirke. Von Dr. G. Jaeger & Dr. E. Bessels. Scale, 1: 100,000,000. Size, 21.6 × 24.5 cm.

XVI. 1870. Pl. 6.

1340. Die geographische Verbreitung der Wanderheuschrecke. Von Fr. Th. Köppen. Equatorial scale, 1: 135,000,000. Size, 19.5 × 24.4 cm.

XVII. 1871. Pl. 18.

REFERENCE LIST.

. In the following list those Christian names or initials not found in the index, but obtained from other sources, are enclosed in brackets. As this list purports to be merely a reference to the entries of the index, no attempt has been made to give the names in full when not so given in the map title, save in a few cases where they were already known to the Compiler.

Owing to the fact that the names of A. Petermann and B. Hassenstein occur in so many of the title-entries, it was deemed advisable not to insert them here.

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R. B.

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CLASSIFIED INDEX

TO THE

MAPS IN THE ROYAL GEOGRAPHICAL SOCIETY'S
PUBLICATIONS.

1830-1883.

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CLASSIFIED INDEX TO THE MAPS CONTAINED IN THE PUBLICATIONS OF THE ROYAL GEOGRAPHICAL SOCIETY, AND IN ASSOCIATED SERIALS.

1830-1883.

BY RICHARD BLISS,

Of the Redwood Library, Newport, R. I.

THE following index includes all the maps and plans published in the first and second series of the *Proceedings*, the *Journal*, and the *Supplementary Papers* of the Royal Geographical Society, and in *Ocean Highways* and *The Geographical Magazine*.

The titles are taken from the maps themselves, and are exact transcripts, with some exceptions in the matter of punctuation and contractions. Titles framed to supply those wanting on the map are indicated by being enclosed in brackets. Indented titles in the index show that the map so represented is enclosed within the border lines of the larger map. The measurements of the size of the map include the outer border lines, the first one given being the one parallel with the title. Where the scale of the map was not given on the original, an approximate scale has been calculated, which is indicated by being enclosed in brackets.

In the early numbers of the *Journal* and *Proceedings*, owing to the absence of any indication as to the pages which the maps were intended to face, it has been thought best to make the reference to the number of the article to which the map belongs; and, as in some of the volumes the numbering of the articles is duplicated or triplicated, reference to maps belonging to other than original communications is shown by the use of (Anal.) and (Misc.), for the analytical and miscellaneous divisions of the work. The date in the index entry is the year for which the volume is published, and not the imprint date, unless both are the same.

Provinces and islands, when remote from the political divisions to which they belong, are classed under the name of the country or state in or near which they are situated. Owing to the lack of well-defined geographical divisions in some parts of Africa, the following arbitrary subdivisions have been made. The Nile Region extends from the Mediterranean to the 10th parallel north latitude, and includes Egyptian Sudan. Maps relating to the Nile south of this must be looked for under Eastern Equatorial Africa (iv. 8. b.). Equatorial Africa embraces that portion of country lying between 10° N. Lat. and 10° S. Lat., and is divided into Eastern and Western on the 25th Greenwich meridian. South Africa is divided into the Tropical and Cape regions on the 20th parallel south latitude. On the other hand, it has been found convenient to unite several distinct political areas, as in the case of the Balkan Peninsula, which is made to comprise all the region formerly known as Turkey in Europe, and in the division of Central Asia, which here includes all the provinces lying between the Kirghiz Steppes on the north and Persia and Afghanistan on the south, and between East Turkestan, India, and the Caspian Sea.

Following are the symbols used for the various works embraced in the index; P., *Proceedings*, first series; Pp., *Proceedings*, second series; J., *Journal*; S. P., *Supplementary Papers*; O. H., *Ocean Highways*, first series; O. Hh., *Ocean Highways*, second series; G. M., *Geographical Magazine*.

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1. [Map-diagram to illustrate Sir J. F. W. Herschel's paper on a new projection of the sphere.] Size, 31.5 × 19.1 cm. J. xxx. 1860. P. 104.
2. [Map-diagram to illustrate Sir Henry James's communication on the projection used in the topographical department of the War Office for maps embracing large portions of the earth's surface.] Size, 38.4 × 19.2 cm. J. xxx. 1860. P. 106.
3. Diagram showing the application of table [of radii of parallels and degrees of longitude] to the projection of a portion of the surface of the earth (including Europe) north of the parallel of 30°. Scale, 15 deg. = in. Size, 12 × 13.8 cm. J. xxx. 1860. P. 111.
4. Chart of the world illustrating Gall's projection. Equatorial scale [ca. 4082 m. = in.]. Size, 16.2 × 11.1 cm. P. xv. 1870-71. P. 159.

2. The Earth in General.

5. Part of a terrestrial globe made at Nuremberg in 1492 by Martin Beham, in which it is supposed the islands are laid down in the same way as in the map used by Columbus in his first voyage. Scale [ca. 1770 m. = in.]. Size, 12 × 17.7 cm. J. xviii. 1848. Art. vi.
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9. Chart showing the distribution of saltiness in the ocean. Equatorial scale [ca. 2560 m. = in.]. Size, 29.8 × 16.5 cm. J. xlvii. 1877. P. 73.
10. [Map of the world showing] lines of equal magnetic variation, or declination (isogonic lines). 1878. Scale [ca. 3170 m. = in.]. Size, 21.7 × 11.2 cm. P. xxii. 1877-78. Pl. 1. P. 216.
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12. The earth's magnetism, as shown by:
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13. Isochronic passage chart for travellers, showing the shortest number of days' journey from London by the quickest through routes, and using such further conveyances as are available without unreasonable cost. It is supposed that local preparations have been made and that other circumstances are favorable. By Francis Galton, F. R. S. Equatorial scale, [ca. 2900 m. = in.]. Size, 22.1 × 13.1 cm. Pp. iii. 1881. P. 704.

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15. A map showing the relation of Cyprus to the adjacent coasts. Scale [ca. 230 m. = in.]. Size, 15.1 × 11.5 cm. G. M. v. 1878. P. 221.

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17. Map of Great Britain shewing the distribution of Roman Catholics, and of Roman Catholic chapels, convents, and monasteries. By E. G. Ravenstein, F. R. S. Scale [ca. 45 m. = in.]. Size, 25.2 × 41.6 cm.

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37. Map to accompany notes on the lower course of the Danube, by Major J. Stokes, R. E. 1859. Scale, 15 m. = in. Size, 18.7 × 10.6 cm.

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38. Map of Epirus, to accompany the paper by Major R. Stuart. Scale, 12.33 m. = in. Size, 29.8 × 32.6 cm. J. xxxix. 1869. P. 276.

39. Geological map of eastern Turkey, by F. von Hochstetter. Scale, 1:2,000,000 [31.57 m. = in.]. Size, 34.7 × 24 cm. O.H. i. 1873. P. 328.

40. Sketch of the seat of war [in Servia, Montenegro, etc.], illustrating the military operations during July, 1876. Scale, 1:2,000,000 [31.57 m. = in.]. Size, 26.9 × 23.8 cm.

G. M. iii. 1876. P. 210.

41. [Maps of part of eastern Europe occupied by the Turks.] Turkey in Europe.

a. Muhammedana. Scale [ca. 79 m. = in.]. Size, 24.3 × 16.2 cm.

b. Political divisions. Scale [ca. 79 m. = in.]. Size, 24.3 × 16.2 cm.

c. Nationalities. According to Dr. Kiepert. Scale [ca. 79 m. = in.]. Size, 24.4 × 16.2 cm.

d. Density of population. Scale [ca. 79 m. = in.]. Size, 24.4 × 16.2 cm.

G. M. iii. 1876. P. 257.

42. A map of the seat of war in European Turkey. Chiefly from the Austrian map. Scale, 7 m. = in. Size, 55.7 × 50.7 cm.

G. M. iv. 1877. P. 251.

43. Proposed changes in the territorial boundaries of European Turkey. Map illustrating articles I., III., VI. of the preliminary treaty. Scale, 48 m. = in. Size, 43.2 × 31.7 cm.

G. M. v. 1878. P. 101.

44. Map to illustrate the Treaty of Berlin. Scale, 52 m. = in. Size, 41.7 × 54.3 cm.

a. Map of Armenia, to illustrate articles 58, 59, 60 of the Treaty of Berlin. Scale, 52 m. = in. Size, 17.8 × 17.2 cm.

b. A map showing the relation of Cyprus to the adjacent coasts. Scale [ca. 230 m. = in.]. Size, 15.1 × 11.5 cm.

G. M. v. 1878. P. 221.

8. Greece.

45. The northern frontier of Greece, 1834. Scale, 11 m. = in. Size, 31.6 × 19.5 cm.

Enumeration of the line of landmarks [northern frontier of Greece]. Scale [11 m. = in.]. Size, 23.6 × 6.6 cm.

J. vii. 1837. P. 94.

46. Minoa and Nisæa in the Gulf of Ægina, by Mr. T. A. B. Spratt of H. M. S. Beacon, 1837. Scale, 3648.5 ft. = in. Size, 19.9 × 16.4 cm.

J. viii. 1838. P. 208.

47. Santorin island, ancient Thera, surveyed by Captain Thomas Graves, F. R. G. S., H. M. S. Volage, 1848. Hydrographic Office, F. B. Archipelago. Scale [ca. 1267 yds. = in.]. Size, 34.7 × 42 cm. J. xx. 1851. Art. 1.

48. The islands of Milo, Anti-Milo, Kimolo, and Polino, surveyed by The Right Honorable Lord John Browne, under the direction of Captain Thomas Graves, H. M. S. Volage, 1849. Hydrographic Office, F. B. Archipelago. Scale, ca. 1.2 m. = in. Size, 55.9 × 35.3 cm. J. xxii. 1852. Art. xiv.

49. Remains and ruins of the ancient town of Melos (MHAOZ). By Mr. G. R. Wilkinson, R. N., H. M. S. Volage. 1848. Scale, 650 ft. = in. Size, 18.3 × 12.7 cm.

Enlarged sketch of the catacombs. Scale, *wanting*. Size, 4.4 × 4.4 cm.

J. xxii. 1852. Art. xiv.

50. Movements of the Macedonian army at the taking of Thermus. Scale [ca. 4.8 m. = in.]. Size, 19.6 × 12.3 cm. J. xxvii. 1857. P. 1.

51. Sketch of the passage of the defile of Ménélaiou by Philip of Macedonia. Scale, 355 yds. = in. Size, 12.3 × 19.6 cm. J. xxvii. 1857. P. 11.

52. Sketch of the expedition of the Gauls under Brennus against Thermopylæ and Callium. Scale [ca. 4.4 m. = in.]. Size, 19.5 × 12.4 cm. J. xxvii. 1857. P. 13.

53. Sketch of the battle of Marathon. Scale, 3200 yds. = in. Size, 12.3 × 18.8 cm. J. xxvii. 1857. P. 16.

54. Plan of Sellasia and military sketch of the environs and the field of battle. Scale, 390 yds. = in. Size, 19.5 × 32.3 cm. J. xxvii. 1857. P. 34.

55. Plans of several antiquities re-discovered in

Laconia and Cynuria in following the route of Pausanias from Thyreatis to Sparta.

- A. The temple of Jupiter Scotias. Scale, 9.5 yds. = in. Size, 19 × 6.8 cm.
- B. The site of that temple in the oak forest of Scotias. Scale, 200 yds. = in. Size, 7.5 × 3.5 cm.
- C. The temple of Apollo at Thornax. Scale, 9.5 yds. = in. Size, 6.8 × 3.1 cm.
- E. View of the Trophy of Hercules (or tombs of Hippocoones and his sons). Scale, 9.5 yds. = in. Size, 13.1 × 7.1 cm.

J. xxvii. 1857. P. 43.

56. Military sketch of a part of Laconia and Cynuria, showing the sites of the antiquities and cities mentioned by Pausanias between the Hermæ and Sparta, and explaining the strategic movements of the ancients in that part of Greece. Scale, 32.50 yds. = in. Size, 19.7 × 27.5 cm.

J. xxvii. 1857. P. 47.

9. Scandinavian Peninsula.

57. Map of the coasts of Norway and Lapland, to illustrate Lieutenant G. T. Temple's paper. Scale [ca. 92 m. = in.]. Size, 39.8 × 34.7 cm.

Pp. ii. 1880. P. 336.

10. Russia.

58. The Uralian mountains (from 51° to 60° N. Lat.). Compiled from various Russian MS. maps, as well as those of Humboldt, Helmersen, etc., by Roderick I. Murchison, V. P. R. S. . . . and John Arrowsmith, F. R. G. S. Scale, 35 m. = in. Size, 37 × 48.5 cm. J. xiii. 1843. Pt. ii. Art. v.

59. Map of the Sea of Azov, the Putrid sea, and the adjacent coasts, to illustrate a paper by Captain Sherard Osborn, R. N. 1857. Scale [ca. 35.4 m. = in.]. Size, 24.2 × 18.6 cm. J. xxvii. 1857. P. 133.

60. Map of Russian Lapland. Drawn from the original map made by Professor J. A. Friis by George T. Temple. Scale, 1: 2,200,000 [34.72 m. = in.]. Size, 26.8 × 34 cm.

Pp. ii. 1880. P. 656.

11. Caucasasia.

61. Part of Georgia and Armenia, to illustrate Colonel Monteith's journal. Scale [ca. 40 m. = in.]. Size, 35.2 × 33.5 cm. J. iii. 1833. Art. i.

62. Sketch map to illustrate Professor Abich's paper on the climatology of the Caucasus. Scale [ca. 240 m. = in.]. Size, 19.4 × 10.9 cm.

J. xxi. 1851. Art. i.

63. Map of the seat of war in Asia. Scale, 1: 750,000 [11.84 m. = in.]. Size, 56.1 × 38 cm.

G. M. iv. 1877. P. 147.

III. ASIA.

1. General.

64. Sketch shewing the routes of Lieutenants Conolly and Burnes [in Central Asia]. Scale [ca. 187 m. = in.]. Size, 28.3 × 19.5 cm.

J. iv. 1834. Art. viii. (Anal.).

65. Proposed overland route to India. Scale, 325 m. = in. Size, 54.8 × 24.8 cm.

O. Hh. i. 1873. P. 48.

66. Map shewing the routes of the British India and of the Netherlands' India Steam Navigation Companies. Compiled by E. G. Ravenstein, F. R. G. S. Scale, 1: 40,000,000 [631.31 m. = in.]. Size, 35.6 × 23.1 cm.

O. Hh. i. 1873. P. 505.

67. Skeleton map to illustrate notices of ancient sea-route to China. Equatorial scale [ca. 1190 m. = in.]. Size, 18.3 × 10.7 cm.

Pp. iv. 1882. P. 651.

2. Asiatic Turkey.

(Exclusive of the Red Sea Provinces.)

68. Part of Georgia and Armenia, to illustrate Colonel Monteith's journal. Scale [ca. 40 m. = in.]. Size, 35.2 × 33.5 cm. J. iii. 1833. Art. i.

69. Sketch of a route through part of Armenia and Asia Minor, by James Brant, Esq., H. M. Consul at Erzurum. 1836. Scale, 50 m. = in. Size, 29.9 × 20 cm. J. vi. 1836. P. 222.

70. Sketch of routes in Asia Minor, 1836. Scale, 48 m. = in. Size, 12.4 × 13.9 cm., and 12.4 × 5.5 cm. J. vii. 1837. P. 60.

71. Routes in Asia Minor, by W. G. [J.] Hamilton, Esq., in 1836. Scale [55.3 m. = in.]. Size, 26.1 × 19.3 cm. J. viii. 1838. P. 156.

72. Sketch of the Cilician and Syrian passes [Asia Minor]. 1838. Scale, 14 m. = in. Size, 11.7 × 15.9 cm. J. viii. 1838. P. 194.

73. Map to illustrate Major Rawlinson's route from Zohab to Khúzistan, in 1836. Scale, 50 m. = in. Size, 23.1 × 19.6 cm. J. ix. 1839. P. 116.

74. Part of Asia Minor, to illustrate the route of W. Ainsworth, Esq. [from Scutari to Vezir Köpri], 1839. Scale [45 m. = in.]. Size, 22.2 × 14.4 cm.

[Plan of Ereğli and neighbourhood.] Scale, 2700 ft. = in. Size, 7.2 × 6.4 cm.

J. ix. 1839. P. 276.

75. Part of Arabia Petraea and Palestine. By Heinrich Berghaus, 1839. Scale, 13 m. = in. Size, 19 × 33.3 cm.

Plan of Sur. Scale, 700 yds. = in. Size, 6.4 × 6.4 cm.

J. ix. 1839. P. 310.

76. The Tigris between Baghdad and Mósul. By Lieutenant J. [H.] B. Lynch, In. Navy, shewing also the routes of Messrs. Ross and Forbes. 1839. Scale, 37 m. = in. Size, 21.5 × 23.8 cm.

Ground plan of the city of Al Hadhr. Scale, wanting. Size (diam.), 7 × 7.1 cm.

J. ix. 1839. P. 476.

77. Asia Minor and Armenia, to illustrate routes of Mr. Ainsworth, Mr. Brant, Mr. Suter, and Lord Pollington. 1840. Scale, [45 m. = in.]. Size, 41.6 × 26 cm. J. x. 1841. P. 489.

78. Map of central Kurdistan, to illustrate Mr. Ainsworth's visit to the Chaldeans in 1840. Scale, 15 m. = in. Size, 38.7 × 37.7 cm.

J. xi. 1841. P. 21.

79. [Sketch showing the relation of the Nahráwán to the Tigris near Khan Nahráwán, Baghdad.] Scale, wanting. Size, 9.5 × 3 cm. J. xi. 1841. P. 123.

80. [Sketch showing the position of the ancient Sasanian fort of Kádisiyáh, near Káim, Baghdad.] Scale, wanting. Size, 9.5 × 3 cm. J. xi. 1841. P. 128.

81. [Plan of Till Walfjah, near Malwiyah, Baghdad.] Scale, 270 paces = in. Size, 8.5 × 6 cm. J. xi. 1841. P. 130.

82. [Plan of the Band on the 'Adhem, Jebel Hamrín.] Scale, wanting. Size, 9 × 5.5 cm. J. xi. 1841. P. 132.

83. Topographical survey of the plain of Troy, by Captain Graves, T. A. B. Spratt, Esq., and other officers of the Royal Navy; with the ancient sites as determined on the spot, by Dr. P. W. Forchhammer. Drawn by John Arrowsmith. Scale, 2.25 m. = in. Size, 24.1 × 31.7 cm. J. xii. 1842. Pt. i. Art. ii.

84. Part of Caria and Lycia; by R. Hoskyn, Esq., Master of H. M. S. Beacon 1841-42, illustrative of his paper. Scale [ca. 9 m. = in.]. Size, 29.7 × 19.5 cm. J. xii. 1842. Pt. ii. Art. i.

85. Dr. Forbes' route from Mesh-hed to the Heri Rud, near Lake Zerreh. Protracted from his journal, by J. Arrowsmith. 1841. Scale, 42 m. = in. Size, 11.1 × 20.1 cm. J. xiv. 1844. Art. x.

86. [Sketch of the place where a Latin inscription at the River Lycus, in Cœle-Syria, was found, determining the position of the city of Abila.] Scale, *wanting*. Size, ca. 9.5 × 6 cm.

J. xx. 1851. Art. ii.

87. Map to illustrate "Outlines of a journey in Palestine in 1852," by the Rev. Dr. E. Robinson. Scale [ca. 17 m. = in.]. Size, 19.5 × 33.8 cm.

J. xxiv. 1854. P. 1.

88. Map of Damascus, Hauran, Anti-Libanus, etc., to illustrate a memoir by the Rev. J. L. Porter, A.M. Scale [ca. 20 m. = in.]. Size, 18.3 × 19.3 cm. J. xxvi. 1856. P. 43.

89. Palestine. Map to illustrate Mr. Poole's journey to the Dead sea, 1856. Scale [ca. 12 m. = in.]. Size, 15.3 × 19.2 cm. J. xxvi. 1856. P. 55.

90. Map of Chaldæa, Susiana, etc., to illustrate journeys to several ancient remains; and also to the determination of the River Eulæus of the Greek historians. By William Kennett Loftus, Esq. 1856. Scale [ca. 39 m. = in.]. Size, 34.7 × 20 cm.

J. xxvi. 1856. P. 131.

91. Map to illustrate explorations in the desert east of the Hauran, and in the ancient land of Bashan; by Cyril C. Graham, Esq. 1858. Scale, 19 m. = in. Size, 19.3 × 11.1 cm.

J. xxviii. 1858. P. 226.

92. Map of Syria, etc.; shewing the routes of Dr. Charles T. Beke, 1861-62. Scale [ca. 21.5 m. = in.]. Size, 17.5 × 19.9 cm.

Traditional sites, etc. Scale [ca. 25 m. = in.]. Size, 3.7 × 5.1 cm.

J. xxxii. 1862. P. 76.

93. Map of part of Kurdistan, illustrating the journeys and researches of Mr. Consul Taylor. Scale, 13 m. = in. Size, 39.3 × 31.3 cm.

J. xxxv. 1865. P. 21.

94. Plan of the ruins of Arzen (Emporium Arzanenorum) [Kurdistan]. Scale, 800 paces = in. Size, ca. 10 × 9 cm. J. xxxv. 1865. P. 26.

95. Plan of Grot church (8 feet high), near Dibeneh [Kurdistan]. Scale, 20 ft. = in. Size, ca. 11 × 7 cm. J. xxxv. 1865. P. 38.

96. Plan of Hatem Tai castle (ancient Sisauronon) [Kurdistan]. Scale, *wanting*. Size, ca. 11 × 6.5 cm. J. xxxv. 1865. P. 52.

97. Map showing the levelling from the Mediterranean to the Dead sea, executed by Captain Wilson, R. E., under the direction of Sir Henry James, R. E., F. R. S., Director of the Ordnance Survey. Scale, 1.29 m. = in. Size, 91.9 × 33.1 cm.

J. xxxvi. 1866. P. 201.

98. Trigonometrical survey of a part of Mesopotamia from Sheriat el Beytha (on the Tigris) to Tel Ibrahim, to accompany the paper by Lieutenant J. B. Bewsher. Scale, 4.43 m. = in. Size, 26 × 31.8 cm.

Sketch map showing supposed positions of some places of historical interest. Scale, 20 m. = in. Size, 6.3 × 8.3 cm.

J. xxxvii. 1867. P. 160.

99. Maps illustrating a tour in Armenia, Kurdistan, and upper Mesopotamia. By J. G. Taylor, H. M. consul for Kurdistan. Scale, 12.5 m. = in. Size, 43.8 × 29.7 cm.

[Ras el Ain and Veyran Shehr to Diarbekr.] Scale, 12.5 m. = in. Size, 13.9 × 19.3 cm.

J. xxxviii. 1868. P. 281.

100. The peninsula of Mount Sinai. A sketch from observations on the ground, by the Rev. F. W. Holland, M. A. London: Stanford's Geographical Establishment. 1868. Scale, 8 m. = in. Size, 41.3 × 40.7 cm. J. xxxix. 1869. P. 343.

101. Sketch map to accompany the paper by M. Rorit, on the identification of Mt. Théchés (of Xenophon). Scale, 15 m. = in. Size, 18.8 × 18 cm. J. xl. 1870. P. 463.

102. Route map of the Tulul el Safâ, from observations taken in May, 1871, by R. F. Burton, F. R. G. S., and C. F. Tyrwhitt-Drake. Scale, 11.33 m. = in. Size, 21.2 × 16.9 cm.

Plan of the cave at Umm Nifran [El Tellul]. Scale, 118 ft. = in. Size, 3.2 × 5.3 cm.

J. xlii. 1872. P. 49.

103. Sketch map of the Anti-Libanus, from observations taken in 1871 by C. F. Tyrwhitt-Drake, F. R. G. S., to accompany Captain Burton's paper. Scale, 4.7 m. = in. Size, 20.5 × 31.9 cm.

J. xlii. 1872. P. 408.

104. Original map of the country east of Smyrna, showing the railways to Kassaba and Aidin, principally from surveys by C. E. Austin, C. E. Drawn by E. G. Ravenstein, F. R. G. S. Scale, 1: 500,000 [7.88 m. = in.]. Size, 44.4 × 30.9 cm.

O. Hh. i. 1873. P. 8.

105. Physical map of Palestine, to accompany the paper by Major C. W. Wilson, R. E. Scale, 21.5 m. = in. Size, 21.6 × 33.2 cm.

J. xliiii. 1873. P. 207.

106. Map of the seat of war in Asia. Scale, 1: 750,000 [11.84 m. = in.]. Size, 56.1 × 38 cm.

G. M. iv. 1877. P. 147.

107. The administrative divisions of the Vilayet of the islands of the White sea [Ægean sea]. Scale, 48 m. = in. Size, 21.2 × 24.1 cm.

[Map of Cyprus.] Scale [ca. 96 m. = in.]. Size, 5.3 × 3.5 cm.

G. M. v. 1878. P. 165.

108. Map of Cyprus. 1878. Scale, 9 m. = in. Size, 41.5 × 25.2 cm. G. M. v. 1878. P. 201.

109. Map of Armenia, to illustrate articles 58, 59, 60 of the Treaty of Berlin. Scale, 52 m. = in. Size, 17.8 × 17.2 cm. G. M. v. 1878. P. 221.

110. A map showing the relation of Cyprus to the adjacent coasts. Scale [ca. 230 m. = in.]. Size, 15.1 × 11.5 cm. G. M. v. 1878. P. 221.

111. Map of the Land of Midian, constructed from reconnaissances and surveys made by officers of the Egyptian General Staff under the command of Captain R. F. Burton. 1878. Scale, 15.5 m. = in. Size, 33.2 × 45.8 cm.

a. [Sketch of the Red sea and the adjacent coasts.] Scale [ca. 1100 m. = in.]. Size, 11.1 × 17.2 cm.

b. Port Dumayyah. Lat. 26° 38' N. Scale [ca. 3800 ft. = in.]. Size, 11 × 14.2 cm.

J. xlii. 1879. P. 1.

3. Arabia.

(Including the Turkish Red Sea Provinces.)

112. The Red sea, from the late surveys. 1835. Scale [ca. 195 m. = in.]. Size, 11.3 × 17.4 cm.

J. v. 1835. P. 206.

113. Red sea, to illustrate Lieutenant Wel[is]-sted's papers. Scale [ca. 94 m. = in.]. Size, 12.7 × 18.8 cm. J. vi. 1836. P. 96.

114. Reduced sketch of native Indian chart [of part of the Red sea and Gulf of Aden], to illustrate the paper by Lieutenant A. Burnes, E. I. C. S. Scale [ca. 306 m. = in.]. Size, 17.4 × 5 cm.
J. vi. 1836. P. 113.

115. Sketch of a route to the ruins of Nakab al Hajar, on the southern coast of Arabia. Scale, 13.5 m. = in. Size, ca. 11 × 12 cm.
J. vii. 1837. p. 32.

116. Map of Oman in Arabia. Scale, 22.5 m. = in. Size, 40.6 × 39.3 cm.
J. vii. 1837. P. 112.

117. Sketch of the northern route from Mokhá to Safá, by J. G. Hulton, M. D., and C. J. Crutenden, Indian Navy. 1836. Scale, 31 m. = in. Size, 25 × 19.9 cm.
J. viii. 1838. P. 288.

118. Part of the south coast of Arabia. From a survey by Captain Haines, Indian Navy, and the officers of the *Palinurus*, 1839. Scale [118 m. = in.]. Size, 36.5 × 18.7 cm.

Plan of Aden. Scale, 2.5 m. = in. Size, 11.7 × 7.7 cm.
J. ix. 1839. P. 156.

119. Part of Arabia Petræa and Palestine. By Heinrich Berghaus, 1839. Scale, 13 m. = in. Size, 19 × 33.3 cm.

Plan of Sur. Scale, 700 yds. = in. Size, 6.4 × 6.4 cm.
J. ix. 1839. P. 310.

120. Sketch of the Kuria-Muria islands [Arabian coast], to illustrate Dr. Hulton's paper. Scale, 42.8 m. = in. Size, ca. 11.5 × 16 cm.
J. xi. 1841. P. 156.

121. Survey of part of the south east coast of Arabia by S. B. Haines, Commander, Indian Navy. Scale [ca. 45 m. = in.]. Size, 36.4 × 31.6 cm.
J. xv. 1845. Art. ii.

122. Survey of part of the south east coast of Arabia, to illustrate Captain Saunders' paper. Scale [ca. 46 m. = in.]. Size, 36 × 31.1 cm.
J. xvi. 1846. Art. vii.

123. Map of the northern part of Arabia. Shewing the routes of Mr. G. A. Wallin. Scale [ca. 62 m. = in.]. Size, 23.3 × 18 cm.
J. xx. 1851. Art. xxi.

124. Map of the northern part of Arabia, shewing the routes of Mr. G. A. Wallin. Scale [ca. 74 m. = in.]. Size, 23.4 × 18 cm.
J. xxiv. 1854. P. 206.

125. Map of Arabia, shewing the routes of W. G. Palgrave, Esq., in 1862-63. Scale, 172.8 m. = in. Size, 23.6 × 17 cm.
J. xxxiv. 1864. P. 111.

126. Map of part of Arabia, showing the route of Lieutenant-Colonel Pelly. Scale, 80 m. = in. Size, 23.6 × 18.9 cm.
J. xxxv. 1865. P. 169.

127. Map of the southern coast of Arabia, shewing the route of Captain S. B. Miles and Werner Munzinger in 1870. Scale, 30 m. = in. Size, 26.6 × 17.3 cm.
J. xli. 1871. P. 210.

128. [Sketch map of the countries bordering the southern portion of the Red sea and the Gulf of Aden, to show the districts producing myrrh.] Scale [ca. 186 m. = in.]. Size, 12 × 7.9 cm.
O. Hh. i. 1873. P. 11.

129. Map of the vicinity of Aden, to accompany the paper by Captain G. J. Stevens. Scale, 3.8 m. = in. Size, 20.8 × 19.5 cm. J. xliiii. 1873. P. 295.

130. A map of south western Arabia. By E. G. Ravenstein, F. R. G. S. Scale, 1 : 2,000,000 [31.57 m. = in.]. Size, 40.1 × 24.5 cm.

[Map of the peninsula and harbour of Aden and vicinity.] Scale, 18 m. = in. Size, 6.7 × 5.5 cm.

O. Hh. i. 1873. P. 397.

131. Map of part of Yemen (Arabia) by Dr. C. Millingen. Scale, 18 m. = in. Size, 24.3 × 18.4 cm. J. xlv. 1874. P. 119.

132. Map of part of Yemen [Arabia] (from Niebühr), to accompany the paper by Dr. C. Millingen. Scale, 18 m. = in. Size, 23.9 × 18.5 cm. J. xlv. 1874. P. 119.

133. Map of northern and central Arabia, to illustrate Mr. Blunt's paper, 'A visit to Jebel Shammar.' Scale, 60 m. = in. Size, 25.8 × 21.7 cm. Pp. ii. 1880. P. 144.

134. Sketch map of the Jebel Shammar, by W. S. Blunt, Esq. Scale, 26.5 m. = in. Size, 21.6 × 14.5 cm. Pp. ii. 1880. P. 144.

4. Persia.

135. Sketch [of the eastern shore of the Persian gulf and the southern shore of Baluchistan] to illustrate the memoir by Lieutenant G. B. Kempthorne, E. I. C. M. Scale [ca. 139 m. = in.]. Size, 24.7 × 10.8 cm. J. v. 1835. P. 284.

136. Kurdistan and part of Persia, to illustrate the routes of Lieutenant-Colonel Shiel, Major D'Arcy Todd, and Mr. T. Thomson. 1838. Scale, 64 m. = in. Size, 24.4 × 19.4 cm. J. viii. 1838. P. 112.

137. Map to illustrate Major Rawlinson's route from Zohab to Khúzistan, in 1836. Scale, 50 m. = in. Size, 23.1 × 19.6 cm. J. ix. 1839. P. 116.

138. Map of Major H. C. Rawlinson's route from Tabriz by Takhti Söleiman to Gilán; and to illustrate his memoir on the Ecbatana of Atropatene. 1838. Scale, 54 m. = in. Size, 30.8 × 20.8 cm.

Ground plan of Takhti Söleiman, or the Ecbatana of Atropatene. Scale, 640 yds. = in. Size, 8 × 6.6 cm.

J. x. 1841. P. 1.

139. Map of central Kurdistan, to illustrate Mr. Ainsworth's visit to the Chaldeans in 1840. Scale, 15 m. = in. Size, 38.7 × 37.7 cm. J. xi. 1841. P. 21.

140. Routes in Kirmán, Jebál, and Khorasán, to illustrate Sergeant Gibbons' journal. Scale, 73 m. = in. Size, 21 × 20 cm. J. xi. 1841. P. 136.

141. Map to illustrate Baron C. A. de Bode's route from Kázerun to Shúshter, through the countries of the Mamáseni, Khóglú, and Bakhtiyári tribes in 1841. Scale, ca. 25 m. = in. Size, 23.4 × 19.8 cm. J. xiii. 1843. Pt. i. Art. iii.

142. Rough sketch of the River Kárun, to illustrate Lieutenant Selby's paper. 1842. Scale, 19 m. = in. Size, 11.1 × 19.7 cm. J. xiv. 1844. Art. xii.

143. Map to illustrate Mr. Layard's paper on Khúzistan. Scale, 51 m. = in. Size, 23.1 × 19.8 cm. J. xvi. 1846. Art. i.

144. Part of the Jeráhi river [Khúzistan] with its canals. Scale [ca. 3.6 m. = in.]. Size, 12.2 × 20.4 cm. J. xvi. 1846. Art. i.

145. Map to illustrate geographical notes taken during a journey in Persia in 1849 and 1850; by Keith E. Abbott, Esq., H. M. Consul at Tehrán. Scale, 44 m. = in. Size, 26.3 × 19.6 cm.

Mr. Abbott's route from Tehrán to Kám. Scale [ca. 55 m. = in.]. Size, 6.8 × 5.4 cm. J. xxv. 1855. P. 1.

146. Map to illustrate notes on routes from Bushire to Shiráz, by Lieutenant-General Monteith; and from Shiráz to Dáráb and thence to Kázerun, by Consul Keith E. Abbott, 1850. Scale, 30 m. = in. Size, 24.6 × 19.8 cm. J. xxvii. 1857. P. 108.

147. [Map to illustrate Mr. Loftus's paper, 'On the determination of the River 'Euláus' of the

Greek historians." Scale [ca. 30 m. = in.]. Size, 14.3 X 10.3 cm. J. xxvii. 1857. P. 121.

148. [Plan showing the bifurcation of the Kerkhah river near Hâwîza, Khûzistan.] Scale [ca. 5 m. = in.]. Size, ca. 11 X 5 cm. J. xxvii. 1857. P. 130.

149. Persia. Map to illustrate routes from Teheran to Herat, and from Teheran to Bushire, by Captain Claude Clerk. Scale, 71 m. = in. Size, 28.8 X 20 cm. J. xxxi. 1861. P. 64.

150. Map of the island of Kishm, to accompany the paper by Lieutenant-Colonel Lewis Pelly. Scale, 9.6 m. = in. Size, 18 X 11 cm. J. xxxiv. 1864. P. 251.

151. Sketch map of Beluchistan and eastern Persia, to accompany the papers by Colonel F. J. Goldsmid, C. B., and J. W. Barnes, Esq., C. E. Scale, 100 m. = in. Size, 33.7 X 19.6 cm. J. xxxvii. 1867. P. 269.

152. Map of eastern Persia, to illustrate the paper by Major-General Sir F. J. Goldsmid. Scale, 50 m. = in. Size, 23.5 X 34.7 cm. J. xliiii. 1873. P. 65.

153. Map of Seistan, to accompany the paper by Major-General Sir H. C. Rawlinson. Scale, 21 m. = in. Size, 23.5 X 19.2 cm. J. xliiii. 1873. P. 273.

154. Map shewing the position of Hormûz island with reference to the Persian coast, and the other old European settlements in the vicinity. From actual survey by A. W. Stiffe, late Lieutenant R. N. Scale, 2.25 m. = in. Size, 21.1 X 25.1 cm. G. M. i. 1874. P. 12.

155. Bird's-eye view of Hormûz, from "Astley's" collection. — Island of Hormûz or Ormus. Scale [ca. 1.1 m. = in.]. Size, 22.8 X 14 cm. G. M. i. 1874. P. 12.

156. North end of Hormûz island, shewing site of ancient towns, etc. Scale, 1000 ft. = in. Size, 23.9 X 25.3 cm. G. M. i. 1874. P. 12.

157. Map of portions of Persia and Turkistan, shewing the routes of Colonel V. Baker and Lieutenant W. J. Gill. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 42.1 X 22.4 cm. G. M. i. 1874. P. 272.

[Enlarged map of the Atrék and tributaries from Shahabad to Sison.] Scale, 13 m. = in. Size, 10.1 X 4.4 cm. G. M. i. 1874. P. 272.

158. A map of the northern frontier of Khorassan, with parts of Irak and Mazandân, to illustrate reports by Captain the Hon. G. Napier, on special duty in Persia. Reduced for the Royal Geographical Society of London from the original prepared by order of Her Majesty's Secretary of State for India. 1876. Scale, 16 m. = in. Size, 67.1 X 41.2 cm. J. xlvii. 1876. P. 63.

159. Route map from Jask to Bampur, to accompany the paper by Mr. E. A. Floyer. Scale, 25 m. = in. Size, 19.3 X 23.5 cm. J. xlviii. 1877. P. 189.

160. Map of Khorasan, and neighbouring countries, illustrating the paper by Lieutenant-Colonel C. E. Stewart, 5th Punjab Infantry. Compiled from Lieutenant-Colonel Stewart's survey, from maps by Major the Honorable G. Napier, Major-General J. T. Walker, Surveyor-General of India, and the Russian Topographical Department, 1881. Scale, 23 m. = in. Size, 82.7 X 62.5 cm. Pp. iii. 1881. P. 576.

161. The boundary between Russian and Persian territory. Reduced from a map furnished by the Russian Minister in Teheran to the Persian Government, December, 1881. Scale, 1: 2,100,000 [33.24 m. = in.]. Size, 18.1 X 10.2 cm. Pp. iv. 1882. P. 214.

162. A map of a route along the Alburz mountains between Tehran, Astrâbâd, and Shahrûd, from plane table surveys executed in 1881 and 1882, by

Lieutenant-Colonel Beresford Lovett, R. E. Scale, 8 m. = in. Size, 71.6 X 30.6 cm. Pp. v. 1883. P. 120.

163. Routes in south western Persia, surveyed in the years 1881 and 1882 by Captain H. L. Wells, R. E. Scale, 8 m. = in. Size, 58.5 X 53 cm., and 65 X 53 cm.

a. Sketch of obstruction to navigation of Karun river at Ahwaz. Scale, 250 yds. = in. Size, 22.5 X 21.5 cm.

b. Plan of rock cutting discovered at Kadam Gah in the Merv Dasht, May, 1881. Scale, 20 ft. = in. Size, ca. 11 X 13 cm. Pp. v. 1883. P. 184.

164. Sketch map of the River Mand or Kara-Aghatch, [Farsistan]. Scale, 32 m. = in. Size, 19 X 10.8 cm. Pp. v. 1883. P. 713.

165. Sketch [of Turkestan and surrounding regions], to illustrate the paper by E. Stirling, Esq., 1835. Scale [ca. 2.45 m. = in.]. Size, 15.4 X 17.6 cm. J. v. 1835. P. 304.

166. Survey of the Sea of Aral by Commander A. Butakoff, Imperial Russian Navy, 1848 and 1849. Scale [ca. 52 m. = in.]. Size, 11.7 X 18.9 cm. J. xliiii. 1853. Art. iv.

167. Two sections of the map of George Ludwig von — [embracing parts of Caçhmîr and Kafristan]. Reduced to one fourth. (From a tracing sent to the Society by M. de Khanikof.) Scale [ca. 13 m. = in.]. Size, 21.9 X 19.9 cm. P. x. 1865-66. [P. 311.]

168. Summer route from Leh (Ladak) to the city of Yarkund. From Leh to the Karakoram pass compiled from the records of G. T. Survey of India; from the Karakoram to Yarkund, from the journal of Moonshee Mahamad-i-Hamid, by Captain T. G. Montgomerie, R. E. Scale, 42.5 m. = in. Size, 11.9 X 18.9 cm. J. xxxvii. 1867. P. 157.

169. The Bolor mountains and upper sources of the Amu-Daria; explanatory map to article on the Pamir, by M. Veniukof. (Translated from the map in the journal of the Imp. Geographical Society of St. Petersburg, 1861.) Scale, 35 m. = in. Size, 35 X 38.6 cm. J. xxxvii. 1866. P. 249.

170. Map of the delta and mouths of the Amu-Daria, from a sketch map by Admiral A. Boutakoff (Russian Navy). Scale, 17 m. = in. Size, 23.6 X 19.7 cm. J. xxxvii. 1867. P. 152.

171. Map to accompany paper on the Bolor highlands, by M. Veniukof. Scale, 55 m. = in. Size, 17.5 X 19.1 cm. P. xliii. 1868-69. [P. 343.]

172. Central Asia. Map to illustrate the expedition of Mr. A. Fedchenko to the Zarafshan valley, in 1869. Scale, 18 m. = in. Size, 23.4 X 16.1 cm. J. xli. 1870. P. 448.

173. Sketch map of the trans-Indus countries, including Gilgit, Dilail, Yassin, etc., by Geo. J. W. Hayward. Scale, 16.66 m. = in. Size, 31.9 X 26.2 cm. J. xli. 1871. P. 1.

174. Map of the route from Badakshan across the Pamir-steppe to Kashgar, with the southern branch of the upper Oxus, from the survey made by the Mirza in 1868-69; to accompany the paper by Major T. G. Montgomerie, R. E., F. R. G. S. Scale, 33 m. = in. Size, 39.8 X 25.4 cm. J. xli. 1871. P. 132.

175. Map showing route from Peshawur, through Chitral to Faizabad in Badakshan, from the exploration made by a sapper havildar during 1870, to accompany the paper by Major T. G. Montgomerie, R. E., F. R. G. S. Scale, 16 m. = in. Size, 18.9 X 38.2 cm. J. xlii. 1872. P. 180.

176. [Chinese map of the Upper Oxus.]

No. 1. Extract from the Chinese map as it is. [Shaded to indicate] the portion in which derangement has occurred. Scale [ca. 138 m. = in.]. Size, 14.7 X 9.8 cm.

- No. 2.** Larger extract from the Chinese map. [Shaded to show] the deranged portion adjusted. Scale [ca. 138 m. = in.]. Size, 28.6 × 16.2 cm.
- No. 3.** Map according to modern data, showing the places represented in the Chinese map. Scale [ca. 138 m. = in.]. Size, 14.7 × 13.5 cm. J. xliii. 1872. P. 438.
- 177.** Photographic reduction of a Chinese map of the upper Oxus region, with autograph transcriptions by Julius Klaproth, to whom it belonged. Scale [ca. 57 m. = in.]. Size, 46.3 × 34.7 cm. J. xliii. 1872. P. 438.
- 178.** Central Asia, western part [showing the routes from India to East Turkestan]. Scale [ca. 120 m. = in.]. Size, 30.7 × 22.1 cm. O. H. ii. No. 5. 1872. P. 140.
- 179.** Map of Maghian [Zarafshan], by M. Fedchenko. Scale, 6.77 m. = in. Size, 26.8 × 19.1 cm. J. xliiii. 1873. P. 263.
- 180.** Map of the country of the upper Oxus. Scale, 50 m. = in. Size, 31.4 × 21 cm. O. H. ii. No. 12. 1873. P. 374.
- 181.** Map illustrating a paper on the region between the Caspian sea and the River Oxus. Compiled by E. G. Ravenstein, F. R. G. S. Scale, 1: 9,000,000 [142.04 m. = in.]. Size, 15.7 × 24.4 cm. O. H. i. 1873. P. 1.
- 182.** The country between Krasnovodsk and Khiva, shewing the routes reconnoitred in 1871 by Captain Skobelev, compiled by E. G. Ravenstein, F. R. G. S. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 24.2 × 15.9 cm. O. H. i. 1873. P. 5.
- 183.** Map of Kokand, and the upper Syr Daria. Compiled by A. P. Fedchenko, in 1872. Scale, 1: 2,715,000 [42.85 m. = in.]. Size, 43.8 × 29.6 cm. O. H. i. 1873. P. 198.
- 184.** Map of the Pamir steppe and neighbouring districts; to illustrate the letters of Colonel Gordon and members of the Kashgar mission. Scale [ca. 50 m. = in.]. Size, 11 × 17.9 cm. P. xviii. 1873-74. P. 429.
- 185.** [Sketch map of the Russian province of Amu Daria.] Scale, 163 m. = in. Size, 7.8 × 23.1 cm. G. M. i. 1874. P. 56.
- 186.** Sketch map of the frontier districts of Kashgar and Russia. By E. G. Ravenstein. Scale, 1: 6,000,000 [94.7 m. = in.]. Size, 25.6 × 17.6 cm. G. M. i. 1874. P. 194.
- 187.** Map of portions of Persia and Turkistan, shewing the routes of Colonel V. Baker and Lieutenant W. J. Gill. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 42.1 × 22.4 cm. [Enlarged map of the Atrek and tributaries from Shahabad to Sison.] Scale, 13 m. = in. Size, 10.1 × 4.4 cm. G. M. i. 1874. P. 272.
- 188.** Khanate of Khiva, after Russian sources by Major Herbert Wood, R. E. Scale, 9 m. = in. Size, 74.6 × 60.9 cm. J. xlv. 1875. P. 367.
- 189.** Mouths and lower courses of Amu [Turkestan]. (17th century and subsequently.) Scale [ca. 30 m. = in.]. Size, 10.7 × 9.1 cm. J. xlv. 1875. P. 368.
- 190.** Lower courses of Amu Darya [Turkestan] 1848-59 (after Boutakoff). Scale [ca. 30 m. = in.]. Size, 10.7 × 9.1 cm. J. xlv. 1875. P. 368.
- 191.** Plan of whirlpools [near the junction of the Kuldun with the Ulkun branch of the Amu]. Scale, 120 ft. = in. Size, ca. 6 × 5 cm. J. xlv. 1875. P. 372.
- 192.** Kichkine mouth of Ulkun Darya. Scale [ca. 600 ft. = in.]. Size, ca. 4.5 × 4.5 cm. J. xlv. 1875. P. 372.
- 193.** Lake Aral, after Admiral Boutakoff. Scale [ca. 48 m. = in.]. Size, 10.9 × 16.7 cm. J. xlv. 1875. P. 401.
- 194.** [Sketch of the region south of Lake Aral.] Survey of 1873. Scale [ca. 38 m. = in.]. Size, 11.9 × 9.9 cm. J. xlv. 1875. P. 406.
- 195.** Central Asia, constructed from the latest English and Russian documents, adapted to recent astronomical observations; by J. Arrowsmith. 1872. Scale, 102 m. = in. Size, 48.5 × 32.9 cm. J. xlv. 1875. P. 420.
- 196.** Skeleton map of the countries between Kashmir and Panjkorah, including Chilas, Kandia, and other districts of Dardistan. Compiled from the maps and researches of Lieutenant D. G. Robinson, Captain H. G. Raverty, H. W. Bellew, Colonel H. C. Johnstone, G. J. W. Hayward, Colonel H. L. Thuillier, Colonel J. T. Walker, Major T. G. Montgomerie; itineraries collected by Dr. G. W. Leitner, and other sources, by E. G. Ravenstein, F. R. G. S. June, 1875. Scale, 1: 500,000 [7.88 m. = in.]. Size, 61.9 × 40.8 cm. G. M. ii. 1875. P. 232.
- 197.** Map of part of central Asia, showing the routes of the Russian Hissar expedition, the Havildar, and the Mullah, 1874-75. Principally from the last edition of Colonel Walker's map of central Asia by E. G. Ravenstein, F. R. G. S. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 35.6 × 26.6 cm. G. M. ii. 1875. P. 336.
- 198.** Map of Khokand (Ferghana). Scale, 1: 1,500,000 [23.67 m. = in.]. Size, 31.1 × 24.7 cm. G. M. iii. 1876. P. 85.
- 199.** Map of Hissar and Kulab [Buchar]. Based upon the astronomical positions determined by Schwarz and the surveys of Lieutenant Vishnevski, members of the expedition commanded by Major Mayeff, 1875. Scale, 13.5 m. = in. Size, 46.1 × 30.4 cm. G. M. iii. 1876. P. 329.
- 200.** Map of central Asia, to accompany the paper by Captain H. Trotter, R. E., on the geographical results of Sir T. D. Forsyth's mission to Kashghar, 1873-74. Scale, 1: 2,000,000 [31.6 m. = in.]. Size, 51.4 × 45.6 cm. J. xlviii. 1878. P. 173.
- 201.** The Hindu Kush, and passes between the Kabul and Oxus. Scale, 24 m. = in. Size, 44.4 × 28.9 cm. Pp. i. 1879. P. 160.
- 202.** Map of the Turcoman steppe and northern Khorassan, to illustrate Sir H. Rawlinson's paper, 'The road to Merv.' Scale, 70 m. = in. Size, 24 × 21.2 cm. Pp. i. 1879. P. 224.
- 203.** Map of Kafiristan [to illustrate a paper by Colonel H. C. Tanner.] Scale, 15 m. = in. Size, 28.9 × 20.2 cm. Pp. iii. 1881. P. 320.
- 204.** Map of Khorasan, and neighbouring countries, illustrating the paper by Lieutenant-Colonel C. E. Stewart, 5th Punjab Infantry. Compiled from Lieutenant-Colonel Stewart's survey, from maps by Major the Honourable G. Napier, Major-General J. T. Walker, Surveyor-General of India, and the Russian Topographical Department, 1881. Scale, 23 m. = in. Size, 82.7 × 62.5 cm. Pp. iii. 1881. P. 576.
- 205.** The boundary between Russian and Persian territory. Reduced from a map furnished by the Russian Minister in Teheran to the Persian Government, December, 1881. Scale, 1: 2,100,000 [33.24 m. = in.]. Size 18.1 × 10.2 cm. Pp. iv. 1882. P. 214.
- 206.** Route map of a journey in the province of Darwaz (Bokhara), from a sketch by A. Regel, 1881. Scale, 30 m. = in. Size, 19 × 16.6 cm. Pp. iv. 1882. P. 413.
- 207.** The Tejend oasis and roads to Merv. Compiled from the latest surveys and information by Colonel Baron Aminof. Scale, 26.4 m. = in. Size, 24.8 × 19.2 cm. Pp. v. 1883. P. 56.

208. Sketch map of the country between the Hari Rud and Murghab river. Scale, 35 m. = in. Size, 10.9 × 19.1 cm. Pp. v. 1883. [P. 56.]

209. Part of Central Asia, showing the territory between the Zarafshan and Amu-Daria rivers. Chiefly compiled from the latest Russian documents, to illustrate Mr. Delmar Morgan's paper. Scale, 13.8 m. = in. Size, 67.3 × 42.8 cm. S. P. i. Pt. 2. 1884. P. 338.

6. Afghanistan and Baluchistan.

210. Sketch [of the eastern shore of the Persian gulf and the southern shore of Baluchistan] to illustrate the memoir by Lieutenant G. B. Kemphorne, E. I. C. M. Scale, [ca. 139 m. = in.]. Size, 24.7 × 10.8 cm. J. v. 1835. P. 284.

211. Sketch of routes in Kach'h'h Gandavá, to illustrate a paper communicated by Captain Postans, A. P. A. 1841. Scale, 28 m. = in. Size, 11.3 × 18.5 cm. J. xiv. 1844. Art. xi.

212. Map showing recent acquisitions to the geography of the districts bordering the British trans-Indus frontier between Peshawur and Dera Ishmael Khan. Compiled under the superintendence of Major J. T. Walker, F. R. G. S., Superintendent G. T. Survey. Scale, 30 m. = in. Size, 23.9 × 19.3 cm. J. xxxii. 1862. P. 303.

213. Map of the coast from Kurrachee to Gwadur, showing the route traversed by Major Goldsmid and party. Scale, 15 m. = in. Size, 54.4 × 16.6 cm. J. xxxiii. 1863. P. 181.

214. Sketch map of Beluchistan and eastern Persia, to accompany the papers by Colonel F. J. Goldsmid, C. B., and J. W. Barnes, Esq., C. E. Scale, 100 m. = in. Size, 33.7 × 19.6 cm. J. xxxvii. 1867. P. 269.

215. Map of Seistan, to accompany the paper by Major-General Sir H. C. Rawlinson. Scale, 21 m. = in. Size, 23.5 × 19.2 cm. J. xliii. 1873. P. 273.

216. Map of a portion of Afghanistan. From surveys made before the evacuation of Candhar and Cabul. By Lieutenant William Fraser Tytler, Deputy Assistant Quartermaster-General. Scale, 26 m. = in. Size, 48.4 × 29.9 cm. G. M. i. 1874. P. 1.

217. Map of the north-west frontier of India and eastern Afghanistan. Scale, 34 m. = in. Size, 30.5 × 37.2 cm. G. M. v. 1878. P. 256.

218. The Kaibar, Karkatcha, and Kurram passes. Scale, 16 m. = in. Size, 44.4 × 24.5 cm. G. M. v. 1878. P. 277.

219. The Bolan, the Mula, and other passes. Scale, 15 m. = in. Size, 16.1 × 27.2 cm. G. M. v. 1878. P. 304.

220. The Sulimani mountains on the Afghan frontier of British India. Based on Major Wilson's map, collated with other authorities. Scale, 24 m. = in. Size, 42.4 × 53.2 cm. Pp. i. 1879. P. 80.

221. The Hindu Kush, and passes between the Kabul and Oxus. Scale, 24 m. = in. Size, 44.4 × 28.9 cm. Pp. i. 1879. P. 160.

222. Sketch map of a portion of the march of the Tal-Chotiáli field-force from Kandahar to India in the spring of 1879. Compiled from personal observation and from information obtained by Lieutenant R. C. Temple, B. S. C. Scale, 8 m. = in. Size, 72.7 × 31.8 cm. J. xlix. 1879. P. 191.

223. The Helmund river [Afghanistan]. Scale, 24 m. = in. Size, 33.3 × 40.8 cm. Pp. i. 1879. P. 224.

224. Map of the Pishin valley and upper basin of the Lora, constructed from the surveys and reconnaissances executed by officers attached to the

forces serving in southern Afghanistan, 1879, collated with Major Wilson's map by W. J. Turner. Scale, 1: 506,880 [8 m. = in.]. Size, 41.9 × 29.6 cm. Pp. ii. 1880. P. 272.

225. Map of the country between Sind and Candahar, showing the course of the proposed railway, constructed from the recent surveys executed by officers attached to the forces serving in southern Afghanistan, collated with the most authentic material, by W. J. Turner. Scale, 1: 1,520,640 [24 m. = in.]. Size, 37.2 × 32.4 cm. Pp. ii. 1880. P. 656 [592].

226. Sketch map of the country between the Hari Rud and Murghab river. Scale, 35 m. = in. Size, 10.9 × 19.1 cm. Pp. v. 1883. P. 56.

7. India.

227. Mouths of the Ganges, to illustrate account of the Cossyah country. Scale [ca. 35 m. = in.]. Size, 19.9 × 19 cm. J. ii. [1832.] Art. vii.

228. A map of the Indus and Punjab rivers from the sea to Lahore. By Lieutenant Burnes, Ast. Resident at Cutch. Scale, 47 m. = in. Size, 31.6 × 46.3 cm. J. iii. 1833. Art. ix.

229. Sketch to illustrate paper on Cochin. Scale [ca. 31 m. = in.]. Size, 20.9 × 19.1 cm. Cochin harbour. Scale [ca. 1.8 m. = in.]. Size, 7.8 × 9.9 cm. J. iii. 1833. Art. ii. (Misc.).

230. The Paumbum passage, Gulf of Manaar. 1830. Scale, 3700 ft. = in. Size, 27 × 19.9 cm. [Sketch of southern India and Ceylon, to show the position of the Paumbum passage.] Scale [ca. 73 m. = in.]. Size, 11 × 4.8 cm. J. iv. 1834. Art. i.

231. Sketch of part of the Himma-leh mountains, to illustrate the paper by Captain Johnson. Scale [ca. 19 m. = in.]. Size, 16.3 × 19.3 cm. J. iv. 1834. Art. iii.

232. A map of the Indus and Punjab rivers with the southern portion of Rajpootana, by Lieutenant Burnes, of the Bombay Army. Scale, 46 m. = in. Size, 31.7 × 36.1 cm. J. iv. 1834. [Art. v.]

233. Kashmir and the northern part of the Panjáb, by Baron Charles Hügel, 1836. Scale, 53 m. = in. Size, 19.2 × 12.9 cm. J. vi. 1836. P. 349.

234. The Gulf of Cambay. Scale [ca. 13 m. = in.]. Size, 11.8 × 20 cm. J. viii. 1838. P. 196.

235. Sketch of the delta of the Indus, by Lieutenant T. G. Carless, I. N. 1837. Scale, 21 m. = in. Size, 19.7 × 19.2 cm. J. viii. 1838. P. 366.

236. Sketch map of Sikhim and the Nepalese frontier, to illustrate Dr. Hooker's paper. Constructed by Augustus Petermann, F. R. G. S. Scale, 1: 890,000 [14 m. = in.]. Size, 22.7 × 19 cm. J. xx. 1851. Art. iii.

237. Part of the Himalaya mountains, to illustrate Captain Strachey's paper. 1851. Scale, 32.5 m. = in. Size, 27.9 × 19.6 cm. J. xxi. 1851. Art. vii.

238. Map of west Nari, with the adjoining provinces of the Indian Himalaya; to illustrate Captain H. Strachey's memoir on the physical geography of western Tibet. Scale, 50 m. = in. Size, 33.8 × 33.8 cm. J. xxiii. 1853. Art. i.

239. Map to illustrate Colonel A. S. Waugh's paper on Mt. Everest and Deodanga. Scale, 32 m. = in. Size, 27.9 × 19.1 cm. P. ii. 1857-58. [P. 103.]

240. Map of the valley of Kashmir; from surveys made by Captain T. G. Montgomerie, under the direction of the Surveyor-General of India; to

illustrate the notes of Captain Godwin Austen and William Purdon, Esq.; to which is added a sketch of the surrounding countries. Scale (of the survey map), 15 m. = in. Size (of the survey map), 21.7 X 20 cm.

[Sketch map of the surrounding countries.] Scale, 67 m. = in. Size, 11.8 X 12.9 cm.

J. xxxi. 1861. P. 14.

241. Map showing recent acquisitions to the geography of the districts bordering the British trans-Indus frontier between Peshawur and Dera Ishmael Khan. Compiled under the superintendence of Major J. T. Walker, F. R. G. S., Superintendent of G. T. Survey. Scale, 30 m. = in. Size, 23.9 X 19.3 cm.

J. xxxii. 1862. P. 303.

242. Sketch map of the glaciers of the Mustakh range (Trans-Indus) and valley of Skardo, etc. Surveyed by Captain H. H. Godwin-Austen. Scale, 8 m. = in. Size, 33.5 X 24.2 cm.

J. xxxiv. 1864. P. 19.

243. Sketch map of the basin of the Mahanuddy (Central India), to accompany the paper by R. Temple, Esq. Scale, 40 m. = in. Size, 35.3 X 18.9 cm.

J. xxxv. 1865. P. 70.

244. Two sections of the map of George Ludwig von ——— [embracing parts of Cachmir and Kafiristan]. Reduced to one fourth. (From a tracing sent to the Society by M. de Khanikof.) Scale [ca. 13 m. = in.]. Size, 21.9 X 19.9 cm.

P. x. 1865-66. [P. 311.]

245. Summer route from Leh (Ladak) to the city of Yarkund. From Leh to the Karakoram pass compiled from the records of G. T. Survey of India; from the Karakoram to Yarkund, from the journal of Moonshee Mahamad-i-Hamid, by Captain T. G. Montgomerie, R. E. Scale, 42.5 m. = in. Size, 11.9 X 18.9 cm.

J. xxxvi. 1866. P. 157.

246. The hill districts in the Madras presidency, to accompany Mr. C. R. Markham's paper. Scale, 18.5 m. = in. Size, 29.6 X 47.9 cm.

J. xxxvii. 1866. P. 181.

247. Map of a portion of the Travancore coast and back waters, showing the anchorage at Alippee, to accompany Mr. C. R. Markham's paper. Scale, 4.92 m. = in. Size, 12 X 19.7 cm.

J. xxxvi. 1866. P. 195.

248. The Warkallay barrier [Travancore], to accompany Mr. C. R. Markham's paper. Scale, 10 m. = in. Size, 12.1 X 19.6 cm.

J. xxxvi. 1866. P. 197.

249. Map of the country between Leh and Ilchi, showing the routes taken by Mr. Johnson, civil assistant G. T. Survey, in 1865. Scale, 31 m. = in. Size, 25 X 23.2 cm.

J. xxxvii. 1867. P. 1.

250. Map of the delta of the Indus, to accompany the paper by Colonel C. W. Tremenheere, C. B., R. E. Scale, 13.5 m. = in. Size, 24.3 X 26 cm.

J. xxxvii. 1867. P. 68.

251. [Diagram illustrating the manner in which beach material is swept along a coast; from H. de la Beche: "Geological observer," fig. 54; to illustrate Colonel C. W. Tremenheere's paper on the lower portion of the Indus.] Scale, *wanting*. Size, ca. 6 X 5 cm.

J. xxxvii. 1867. P. 79.

252. Sketch map of north eastern India, with portions of Burmah and China, to accompany the paper by General Sir Arthur Cotton, R. E. Scale, 97 m. = in. Size, 45.5 X 19.4 cm.

The frontiers of Assam, Burmah, and China on an enlarged scale. 50 m. = in. Size, 17 X 10.7 cm.

J. xxxvii. 1867. P. 231.

253. Map showing the route survey from Nepal to Lhasa, and thence through the upper valley of

the Brahmaputra. Made by Pundit ——— from the map compiled by Captain T. G. Montgomerie, R. E. Scale, 32 m. = in. Size, 57.9 X 27.9 cm.

Continuation of map northwest of Gartokh, from the Pundit's journey of 1867. Scale [32 m. = in.]. Size, 14.6 X 7.9 cm.

J. xxxviii. 1868. P. 129.

254. Map of Coorg [Mysore, India], to accompany the paper by George Bidie, M. B. Scale, 11 m. = in. Size, 17.5 X 19 cm.

J. xxxix. 1869. P. 77.

255. Sketch map of eastern Turkistan, showing the hydrography of the Pamir to the east, the true courses of the Yarkand and Karakash rivers, with all the routes from Ladak across the Karakoram and adjacent ranges. As drawn by the author, Geo. J. W. Hayward. Scale, 32 m. = in. Size, 31.7 X 39.5 cm.

J. xl. 1870. P. 33.

256. Map to illustrate Sir H. Bartle E. Frere's notes on the Runn of Cutch, etc. Scale, 147 m. = in. Size, 19.3 X 23.7 cm.

J. xl. 1870. P. 181.

257. Rough sketch of the "Dunds" or lakes connected with the eastern Narra, from 40 to 80 miles northwest of Oomercote [Scinde]. Scale, 9 m. = in. Size, ca. 10 X 12 cm.

J. xl. 1870. P. 190.

258. A map to illustrate Captain Harcourt's paper on the Himalayan valleys of Kooloo, Lahoul, and Spiti, with a sketch map of the passes from India to eastern Turkistan.

a. The Himalayan valleys of Kooloo, Lahoul, and Spiti. Scale, 16 m. = in. Size, 18.7 X 20.3 cm.

b. The passes from India to eastern Turkistan. Scale, 73 m. = in. Size, 16.4 X 20.2 cm.

J. xli. 1871. P. 245.

259. Map showing the route from Assam over the Patkoi range into Hookoong, to illustrate the paper by H. L. Jenkins, Esq. Scale, 46 m. = in. Size, 22 X 17.5 cm.

J. xli. 1871. P. 342.

260. Map of the Bhawalpore State (Punjab), to accompany the paper by J. W. Barnes, Esq., F. G. S. Scale, 26 m. = in. Size, 50.1 X 24.4 cm.

J. xlii. 1872. P. 390.

261. Rainfall and forest trees in India. Drawn for "Ocean highways: the geographical record," by A. Keith Johnstone, F. R. G. S. Scale, 260 m. = in. Size, 20.9 X 29.6 cm.

O. H. ii. No. 7. 1872. P. 2c2.

262. The distribution of the caoutchouc tree, or *Ficus elastica*, in Assam. By Gustav Mann. Scale, 32 m. = in. Size, 46.4 X 21.9 cm.

O. H. i. 1873. P. 67.

263. The parts of the lower provinces and the north west provinces of Bengal threatened with famine in 1874 [with an outline of Ireland, on the same scale, superimposed, for comparison]. Scale, 33 m. = in. Size, 44 X 33.8 cm.

O. H. i. 1873. P. 441.

264. Hypsographical sketch map of southern India. By E. G. Ravenstein. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 16.6 X 22.4 cm.

Rain map. Scale [ca. 193 m. = in.]. Size, 6.5 X 7.1 cm.

G. M. i. 1874. P. 329.

265. The upper Periyar, illustrating a paper by Clements R. Markham [on irrigation in southern India]. Scale, 1: 250,000 [= 3.95 m. = in.]. Size, 22.9 X 15.7 cm.

G. M. i. 1874. P. 332.

266. Map showing the proposed overland trade routes from India and British Burmah to China, to accompany the paper by J. Coryton, Esq. Scale, 132 m. = in. Size, 33.7 X 27.8 cm.

J. xlv. 1875. P. 229.

267. Map showing routes of native explorers in Tibet and Nepal, to illustrate the papers by Mr.

Markham and Lieutenant-Colonel T. G. Montgomery. Scale, 32 m. = in. Size, 57.3 × 28.8 cm.

Continuation of map north-west of Gartokh, from the Pundit's journey of 1867. Scale, 32 m. = in. Size, 14.5 × 6.8 cm.

J. xlv. 1875. P. 299.

268. Sketch of the irrigation works in Ferozpur (Punjab). Scale, 7.66 m. = in. Size, 26.1 × 15.8 cm. G. M. iii. 1876. P. 60.

269. Map of a portion of Tibet and adjoining countries, illustrating the Pundit's journey in 1874. By E. G. Ravenstein, F. R. G. S. Scale, 1 : 2,500,000 [39.47 m. = in.]. Size, 58.2 × 36.1 cm. G. M. iii. 1876. P. 145.

270. The famine districts of Bombay and Madras, 1877. Scale, 76 m. = in. Size, 23.8 × 31.5 cm. G. M. iv. 1877. P. 111.

271. The Himalaya and Tibet: a view of the mountain system bounded by the plains of India, Gobi, China, and the Caspian. Scale, 83 m. = in. Size, 67.3 × 24.5 cm. G. M. iv. 1877. P. 173.

272. A fac-simile of "a sketch map of the principal natural divisions of the Himalaya," by B. H. Hodgson, Esq., 1857. Scale [ca. 81 m. = in.]. Size, 40.8 × 21.3 cm. G. M. iv. 1877. P. 178.

273. Map of portion of Malabar coast indicating manner of extension. Scale, 2 m. = in. Size, 16 × 24.6 cm. G. M. iv. 1877. P. 230.

274. The distribution of persons relieved in the famine districts of southern India, according to the latest reports. Scale, 77 m. = in. Size, 39.9 × 31.4 cm. G. M. iv. 1877. P. 286.

275. Map of the Krishna basin [southern India]. Scale, 55 m. = in. Size, 26 × 17.6 cm. G. M. iv. 1877. P. 307.

276. [Plan of the Karakoram range between the Lob and Indus basins, to illustrate Mr. Shaw's article: "Water partings *versus* ranges."] Scale, 40 m. = in. Size, ca. 15 × 12 cm. G. M. iv. 1877. P. 315.

277. A language map of India and its border lands. E. L. B. and R. N. C., 1877. No. 1. Scale, 138 m. = in. Size, 41.6 × 40.7 cm. G. M. v. 1878. P. 1.

278. Sketch map constructed to illustrate explorations made in connection with the operations of the Great Trigonometrical Survey of India, by Mulla —, in 1876. Scale, 24 m. = in. Size, 25.5 × 25.7 cm. G. M. v. 1878. P. 112.

279. Map of the north-west frontier of India and eastern Afghanistan. Scale, 34 m. = in. Size, 30.5 × 37.2 cm. G. M. v. 1878. P. 256.

280. The Kailash, Karkatcha, and Kurram passes. Scale, 16 m. = in. Size, 44.4 × 24.5 cm. G. M. v. 1878. P. 277.

281. The Sulimani mountains on the Afghan frontier of British India. Based on Major Wilson's map, collated with other authorities. Scale, 24 m. = in. Size, 42.4 × 53.2 cm. Pp. i. 1879. P. 80.

282. Sketch map of the Bustar dependency. By Captain T. Holdich, R. E. Scale, 23.5 m. = in. Size, 22.3 × 19.5 cm.

[Sketch of a portion of the Madras and Bengal presidencies, to show the position of the Bustar dependency.] Scale [ca. 280 m. = in.]. Size, 5.7 × 6.7 cm.

Pp. i. 1879. P. 416.

283. Map of Sikkim and parts of the adjacent territories; to illustrate Sir R. Temple's paper. Scale, ca. 5.5 m. = in. Size, 23.1 × 21.6 cm. Pp. iii. 1881. P. 384.

284. Sketch map showing the river system of Tibet, Assam, and Burma. Scale, 125 m. = in. Size, 27.3 × 30.4 cm.

Pp. iv. 1882. P. 328.

285. Sketch map of the Marhatta country, to illustrate Sir Richard Temple's lecture. Scale, 57 m. = in. Size, 13.2 × 22.1 cm.

Pp. iv. 1882. P. 520.

286. Map of the Shaktu valley, north west frontier, Punjab. From a sketch by Captain G. F. Young, D. A. Quartermaster-General. Scale, 3.12 m. = in. Size, 40.3 × 10.6 cm., and 40.4 × 10.8 cm.

Pp. iv. 1882. P. 584.

8. Siberia.

287. The Uralian Mountains (from 51° to 60° N. Lat.). Compiled from various Russian MS. maps, as well as those of Humboldt, Helmersen, etc., by Roderick I. Murchison, V. P. R. S. . . . and John Arrowsmith, F. R. G. S. Scale, 35 m. = in. Size, 37 × 48.5 cm. J. xiii. 1843. Pt. ii. Art. v.

288. Map of the Amur and adjacent districts, to illustrate notes by M. M. Peschurof, Shenurin, Vesilief, Radde, Usoltzof, Pargachevski, etc. Compiled by John Arrowsmith. Scale [ca. 52 m. = in.]. Size, 45.8 × 19.8 cm. J. xxviii. 1858. P. 376.

289. Map of the Russian and Chinese frontier; illustrating the journey of Semenov to the Tian-Shan mountains and K[i]verf Jaxartes, and Golubef's Issyk-kul expedition. Scale, 33 m. = in. Size, 45.2 × 34.4 cm. J. xxxi. 1861. P. 356.

290. Map of the (lake) Nor-Zaisan (Chinese Tartary) and its neighbourhood, to illustrate the paper of M. Abramof. Scale, 55 m. = in. Size, 19.3 × 11 cm. J. xxxv. 1865. P. 59.

291. Map of the Russian possessions in Manchuria, to accompany the paper by Rev. W. V. Lloyd. Scale, 108 m. = in. Size, 19.5 × 25.1 cm.

Peter the Great, or Victoria, bay, on an enlarged scale. Scale, 27 m. = in. Size, 10.3 × 6.1 cm.

J. xxxvii. 1867. P. 212.

292. [Sketch map of the northwestern portion of North America and the northeastern portion of Asia, showing the position of Alaska.] Scale [ca. 378 m. = in.]. Size, 26.1 × 17.4 cm. J. xxxviii. 1868. P. 219.

293. Central Asia. Map to illustrate Baron Osten Sacken's route from Vernoe to the Trans-Naryn country. Scale, 46 m. = in. Size, 11.6 × 17.9 cm. J. xl. 1870. P. 250.

294. The island of Saghalin, from Russian authorities, to accompany the paper by Colonel Veniukof. Scale, 14 m. = in. Size, 11.1 × 32.1 cm. J. xlii. 1872. P. 373.

295. Sketch illustrating Chekanovski's journey to the Olena (Olenek), 1874. Scale, 120 m. = in. Size, 17.6 × 25.4 cm. G. M. ii. 1875. P. 228.

296. Map of Kuldja district and the Russo-Chinese frontier in Turkestan. Reduced from Colonel Walker's map. Scale, 55 m. = in. Size, 42.9 × 22.2 cm. Pp. ii. 1880. P. 528.

9. Chinese Empire.

A. East Turkestan.

297. Map of the Russian and Chinese frontier; illustrating the journey of Semenov to the Tian-Shan mountains and K[i]verf Jaxartes, and Golubef's Issyk-kul expedition. Scale, 33 m. = in. Size, 45.2 × 34.4 cm. J. xxxi. 1861. P. 356.

298. Map of the country between Leh and Ilchi, showing the routes taken by Mr. Johnson, civil assistant G. T. Survey, in 1865. Scale, 31 m. = in. Size, 25 × 23.2 cm. J. xxxvii. 1867. P. 1.

299. Map to accompany paper on the Bolor highlands, by M. Veniukoff. Scale, 55 m. = in. Size, 17.5 × 19.1 cm. P. xiii. 1868-69. [P. 343.]

300. Sketch map of eastern Turkistan, showing the hydrography of the Pamir to the east, the true courses of the Yarkand and Karakash rivers, with all the routes from Ladak across the Karakoram and adjacent ranges. As drawn by the author, George J. W. Hayward. Scale, 32 m. = in. Size, 31.7 × 39.5 cm. J. xli. 1870. P. 33.

301. Central Asia. Map to illustrate Baron Osten Sacken's route from Vernoe to the Trans-Naryn country. Scale, 46 m. = in. Size, 11.6 × 17.9 cm. J. xl. 1870. P. 250.

302. A map to illustrate Captain Harcourt's paper on the Himalayan valleys of Kooloo, Lahoul, and Spiti, with a sketch map of the passes from India to eastern Turkistan.

a. The Himalayan valleys of Kooloo, Lahoul, and Spiti. Scale, 16 m. = in. Size, 18.7 × 20.3 cm.

b. The passes from India to eastern Turkistan. Scale, 73 m. = in. Size, 16.4 × 20.2 cm.

J. xli. 1871. P. 245.

303. Sketch map of the frontier districts of Kashgar and Russia. By E. G. Ravenstein. Scale, 1 : 6,000,000 [94.7 m. = in.]. Size, 25.6 × 17.6 cm. G. M. i. 1874. P. 104.

304. Sketch map illustrative of Sir D. Forsyth's mission to Kashgar. Based upon Captain Trotter's preliminary map published by Colonel J. T. Walker, F. R. S. Scale, 60 m. = in. Size, 27.1 × 17.3 cm. G. M. ii. 1875. P. 145.

305. Sketch map of eastern Turkistan, to illustrate the paper by R. B. Shaw, Esq. Scale, 18 m. = in. Size, 26.6 × 19.7 cm. J. xlii. 1876. P. 277.

306. [Plan of the Karakoram range between the Lob and Indus basins, to illustrate Mr. Shaw's article: "Water partings *versus* ranges."] Scale, 40 m. = in. Size, ca. 15 × 12 cm. G. M. iv. 1877. P. 315.

307. Prejevalsky's route from Kuldja across the Tian Shan to Lob Nor and the Altyn Tag, 1876 and 1877. Scale, 1 : 3,000,000 [47.35 m. = in.]. Size, 31.1 × 24.3 cm. G. M. v. 1878. P. 109.

308. Map of Kuldja district and the Russo-Chinese frontier in Turkestan. Reduced from Colonel Walker's map. Scale, 55 m. = in. Size, 42.9 × 22.2 cm. Pp. ii. 1880. P. 528.

B. Tibet.

309. Map of west Nari, with the adjoining provinces of the Indian Himalaya; to illustrate Captain H. Strachey's memoir on the physical geography of western Tibet. Scale, 50 m. = in. Size, 33.8 × 33.8 cm. J. xxiii. 1853. Art. 1.

310. Map showing the route survey from Nepal to Lhasa, and thence through the upper valley of the Brahmaputra. Made by Pundit — from the map compiled by Captain T. G. Montgomerie, R. E. Scale, 32 m. = in. Size, 57.9 × 27.9 cm.

Continuation of map north-west of Gartokh, from the Pundit's journey of 1867. Scale [32 m. = in.]. Size, 14.6 × 7.9 cm.

J. xxxviii. 1868. P. 129.

311. Map of the head-waters of the Kinchar Kiang, Lan tsan Kiang, Now Kiang, and Great River of Tibet. Laid down from Chinese maps by T. T. Cooper. Scale [ca. 36 m. = in.]. Size, 41.1 × 18.2 cm. P. xiii. 1868-69. P. 393.

312. Map showing routes of native explorers in Tibet and Nepal, to illustrate the papers by Mr. Markham and Lieutenant-Colonel T. G. Montgomerie. Scale, 32 m. = in. Size, 57.3 × 28.8 cm.

Continuation of map north-west of Gartokh, from the Pundit's journey of 1867. Scale, 32 m. = in. Size, 14.5 × 6.8 cm.

J. xlv. 1875. P. 299.

313. Map of Great Tibet, shewing the route of the Trans-Himalayan explorers, round Lake Tengri-Nor to Lhasa, 1872. Scale, 16 m. = in. Size, 28.8 × 25.9 cm. G. M. ii. 1875. P. 41.

314. Map of a portion of Tibet and adjoining countries, illustrating the Pundit's journey in 1874. By E. G. Ravenstein, F. R. G. S. Scale, 1 : 2,500,000 [39.47 m. = in.]. Size, 58.2 × 36.1 cm. G. M. iii. 1876. P. 145.

315. Map illustrating the journey of the Pundit Nain Singh through Great Tibet from Ladakh to Assam, to accompany the paper by Captain H. Trotter, R. E. Scale, 31 m. = in. Size, 66.8 × 45.3 cm. J. xlii. 1877. P. 87.

316. The Himalaya and Tibet: a view of the mountain system bounded by the plains of India, Gobi, China, and the Caspian. Scale, 83 m. = in. Size, 67.3 × 24.5 cm. G. M. iv. 1877. P. 173.

317. A facsimile of "a sketch map of the principal natural divisions of the Himalaya," by B. H. Hodgson, Esq., 1857. Scale [ca. 81 m. = in.]. Size, 40.8 × 21.3 cm. G. M. iv. 1877. P. 178.

318. Route map of Captain W. J. Gill's journey in western China and eastern Tibet, 1877. Reduced from his original drawings and collated with other material by W. J. Turner. Scale, 1 : 1,774,080 [28 m. = in.]. Size, 47.5 × 57.9 cm. J. xlviii. 1878. P. 57.

319. A language map of India and its border lands. E. L. B. and R. N. C., 1877. No. 1. Scale, 138 m. = in. Size, 41.6 × 40.7 cm. G. M. v. 1878. P. 1.

320. Map illustrating the paper of Major J. E. Sandeman, Bengal Staff Corps, showing the journey of Pundit Alaga, the sources of the Irawadi river, and its supposed connection with the Sampo river, compiled from the latest information. Scale, 1 : 1,250,000 [19.75 m. = in.]. Size, 53.9 × 53.2 cm.

Sketch map showing the river system of Tibet, Assam, and Burma. Scale, 125 m. = in. Size, 27.3 × 30.4 cm.

Pp. iv. 1882. P. 328.

C. Mongolia, Manchuria, and Korea.

321. Map of the Amur and adjacent districts, to illustrate notes by M. M. Peschurof, Shenurin, Vesilief, Radde, Usoltzof, Pargachefski, etc. Compiled by John Arrowsmith. Scale [ca. 52 m. = in.]. Size, 45.8 × 19.8 cm. J. xxviii. 1858. P. 376.

322. Map to illustrate the routes of Messrs. Michie and Grant; the former from Tien-tsin to Moukden in Manchuria, the latter from Peking across the Desert of Gobi to Kiachta. Scale, 35 m. = in. Size, 39.5 × 19.5 cm.

Continuation of Mr. Grant's route, on a reduced scale. Scale, 225 m. = in. Size, 8.4 × 9 cm.

J. xxxiii. 1863. P. 153.

323. [Sketch of Korea and adjacent regions, to show the position of the Island of Tsushima.] Scale [ca. 550 m. = in.]. Size, 6.1 × 4.4 cm. J. xxxiii. 1863. P. 178.

324. Map of the (lake) Noe-Zaisan (Chinese Tartary) and its neighbourhood, to illustrate the paper of M. Abramof. Scale, 55 m. = in. Size, 19.3 × 11 cm. J. xxxv. 1865. P. 59.

325. Map of the Russian possessions in Manchuria, to accompany the paper by Rev. W. V. Lloyd. Scale, 108 m. = in. Size, 19.5 × 25.1 cm.

Peter the Great, or Victoria bay, on an enlarged scale. Scale, 27 m. = in. Size, 10.3 × 6.1 cm.

J. xxxvii. 1867. P. 212.

326. Map to accompany the notes on Manchuria by the Rev. Alexander Williamson. Scale, 60 m. = in. Size, 31.9 × 25.8 cm. J. xxxix. 1869. P. 1.

327. Map to accompany notes of a journey through Manchuria by the Archimandrite Palladius. Scale, 45 m. = in. Size, 37.9 × 43.9 cm.

J. xlii. 1872. P. 142.

328. Map to illustrate a journey through western Mongolia by Ney Elias, jr, F. R. G. S., July, 1872, to January, 1873. Scale, 1: 4,320,000 [68.18 m. = in.]. Size, 69.8 × 37.1 cm.

J. xliii. 1873. P. 109.

329. Map of the desert of Gobi, shewing the route of Mr. Ney Elias. Drawn by E. G. Ravenstein. Scale, 1: 10,000,000 [157.83 m. = in.]. Size, 24.2 × 15.9 cm.

O. Hh. i. 1873. P. 126.

330. Route map of journey through north China and inner Mongolia by Dr. Bushell. Scale, 28 m. = in. Size, 23.3 × 19.7 cm.

J. xlii. 1874. P. 73.

331. Sketch map to elucidate Mr. Paderin's visit to the site of Karakorum, 1873. Drawn by Colonel H. Yule, C. B. Scale, 70 m. = in. Size, 25.7 × 17.3 cm.

G. M. i. 1874. P. 137.

332. Sketch map of part of western Mongolia, illustrating the explorations of Miroshnichenko, Matusovski, and Sosnovski. 1872-73. Scale, 70 m. = in. Size, 25.9 × 17.3 cm.

G. M. ii. 1875. P. 196.

D. China.

333. The Yang-tse-Kiang to illustrate paper by Lord Colchester and Captain Collinson, R. N. 1847. Scale, 48 m. = in. Size, 21.4 × 14.7 cm.

J. xvii. 1847. Art. iii.

334. Island of Chusan, from official surveys. To accompany a memoir on the island by Sir John Francis Davis, Baronet, F. R. S., F. R. G. S. Scale, 2.16 m. = in. Size, 31.3 × 19.5 cm.

J. xxiii. 1853. Art. xx.

335. Map of the Yang-tse-Kiang or Ta-Kiang from Han-Kow in Hoopeh to Nankin in Kiang-Su. Compiled by Captain Sherard Osborn, R. N., C. B., F. R. G. S., etc. H. M. S. *Furious*. 1858. Scale, 34 m. = in. Size, 23 × 18.8 cm.

J. xxx. 1860. P. 76.

336. China. The Yang-tse-Kiang, from Hankow to Ping-shan; reduced from the large chart (of which this is the index) from the survey of Captain T. Blakiston, R. A., by John Arrowsmith. Scale, 28 m. = in. Size, 57.2 × 18.5 cm.

J. xxxii. 1862. P. 1.

337. Sketch map of the island of Formosa, to illustrate the paper by Mr. Robert Swinhoe (Vice-Consul). Scale, 25.5 m. = in. Size, 11.5 × 19.4 cm.

J. xxxiv. 1864. P. 6.

338. The city of Peking, from a survey by Captain Bouvier, of the French Engineers, 1862. Scale, 2754 ft. = in. Size, ca. 27 × 30 cm.

J. xxxvi. 1866. P. 129.

339. Sketch map of north-eastern India, with portions of Burmah and China, to accompany the paper by Lieutenant Sir Arthur Cotton, R. E. Scale, 97 m. = in. Size, 45.5 × 19.4 cm.

The frontiers of Assam, Burmah, and China, on an enlarged scale. Scale, 50 m. = in. Size, 17 × 10.7 cm.

J. xxxvii. 1867. P. 231.

340. The River Kong or Cassia. Reduced from the large map by Albert S. Bickmore, Esq., M. A. Scale [ca. 18 m. = in.]. Size, 19.5 × 24.9 cm.

Sketch map illustrating Mr. Bickmore's journey from Canton to Hankow. Scale, 85 m. = in. Size, 11.2 × 19.9 cm.

J. xxxviii. 1868. P. 50.

341. Map to accompany Mr. Ney Elias' paper on the new course of the Yellow river. Scale, 60 m. = in. Size, 17.7 × 22.2 cm.

J. xl. 1870. P. 1.

342. Sketch map showing the mineral and silk districts of the province of Shan-Tung (China), to accompany the paper by J. Markham, Esq., H. M. Consul at Chefoo. Scale, 32 m. = in. Size, 37.1 × 24.3 cm.

J. xl. 1870. P. 207.

343. The Yang-tse-Kiang from Tung-Ting lake to Chung-King, to accompany the paper by R. Swinhoe, Esq., H. M. Consul. Scale, 14 m. = in. Size, 66.5 × 22.9 cm.

J. xl. 1870. P. 268.

344. Sketch map of the south-western frontiers of China, from a map compiled by the French missionaries. Scale [ca. 32 m. = in.]. Size, 11.4 × 18.1 cm.

P. xv. 1870-71. P. 163.

345. Sketch map of southern Formosa, to accompany the paper by J. Thomson, Esq. Scale, 14 m. = in. Size, 19.2 × 25.6 cm.

J. xliii. 1873. P. 97.

346. Route map of journey through north China and inner Mongolia by Dr. Bushell. Scale, 28 m. = in. Size, 23.3 × 19.7 cm.

J. xlii. 1874. P. 73.

347. South eastern coast of China. From Sir Robert Dudley's *Arcano del Mare*, vol. ii., 1647. Scale [ca. 153 m. = in.]. Size, 12.7 × 11.2 cm.

J. xlii. 1874. P. 103.

348. Sketch of south eastern coast of China from Admiralty charts, etc. Scale [ca. 153 m. = in.]. Size, 12.2 × 11.2 cm.

J. xlii. 1874. P. 103.

349. [Sketch maps of China, to illustrate a paper by Colonel H. Yule.]

Fig. 1. China, from Padre Martini's *Atlas Sinensis*, 1655. Scale [ca. 338 m. = in.]. Size, 13.2 × 14 cm.

Fig. 2. China, from Keith Johnston's *Royal atlas*, circa 1860. Scale [ca. 338 m. = in.]. Size, 11.7 × 14 cm.

G. M. i. 1874. P. 147.

350. The Middle Kingdom. [Approximate reproduction of Matteo Ricci's map of China, and surrounding countries.] Scale [ca. 1700 m. = in.]. Size, 11 × 11 cm.

G. M. i. 1874. P. 147.

351. Map of Formosa. By E. G. Ravenstein. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 15.6 × 23.6 cm.

G. M. i. 1874. P. 292.

352. Map showing the proposed overland trade routes from India and British Burmah to China, to accompany the paper by J. Coryton, Esq. Scale, 132 m. = in. Size, 33.7 × 27.8 cm.

J. xlv. 1875. P. 229.

353. Map of Further India and south-western China. By E. G. Ravenstein, F. R. G. S. Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 46.8 × 52.6 cm.

G. M. ii. 1875. P. 97.

354. Map to illustrate the journey from Hankow to Tali-Fu of Mr. A. R. Margary. Scale, 70 m. = in. Size, 41.3 × 17.7 cm.

J. xlvii. 1876. P. 173.

355. Route map between Bhamo and Mung-Mau through the hills of the Lenna Kahhyens, by Ney Elias, Esq. Scale, 8 m. = in. Size, 29.1 × 18.2 cm.

J. xlvii. 1876. P. 199.

356. Route map of Captain W. J. Gill's journey in western China and eastern Tibet, 1877. Reduced from his original drawings and collated with other material by W. J. Turner. Scale, 1: 1,774,080 [28 m. = in.]. Size, 47.5 × 57.9 cm.

J. xlviii. 1878. P. 57.

357. Map of central and southern China, illustrating Mr. McCarthy's journey from Chin-kiang to Bhamo, 1877. Scale, 130 m. = in. Size, 32.8 × 20.1 cm.

Pp. i. 1879. P. 544.

358. Map of part of China, to accompany the paper by E. Fitzgerald Creagh. Scale, 138 m. = in. Size, 17.4 × 18.7 cm.

J. l. 1880. P. 275.

359. Maps to accompany papers on journeys in eastern China, by G. J. Morrison, M. I. C. E., 1878. Scale, 62 m. = in. Size, 21.2 × 28.3 cm, and 8.6 × 28.3 cm.

Pp. ii. 1880. P. 208.

360. Map of southern China, showing Mr. A. R. Colquhoun's route from Canton to Bhamo. Scale, 98 m. = in. Size, 38.2 × 22.4 cm.

Pp. iv. 1882. P. 776.

361. Map illustrating the distribution of the Sifan tribes [to accompany Mr. E. C. Baber's paper on western China. 1882]. Scale [ca. 60 m. = in.]. Size, 21.6 × 13.7 cm. S. P. i. Pt. 1. 1882. P. 93.

362. [Plan of excavations near Ch'ien-wei Hsien, on the Min, western Ssu-ch'nan; to accompany Mr. E. C. Baber's paper on western China.] Scale, 16 ft. = in. Size, ca. 8 × 10 cm.

S. P. i. Pt. 1. 1882. P. 130.

363. Route map of explorations in western China by E. Colborne Baber, F. R. G. S., Chinese secretary H. M. Legation. Peking. [In three sheets.] Scale, 10.25 m. = in. Size (sheet 1), 46.8 × 73.3 cm.; (sheet 2), 77.2 × 22.2 cm.; (sheet 3), 30.7 × 22.1 cm.

Map of China [showing Mr. Baber's route]. Scale, 290 m. = in. Size, 16.2 × 14.5 cm.

S. P. i. Pt. 1. 1882. P. 202.

364. Plan of a tomb [in the Imperial mausolea east of Peking]. Scale, *wanting*. Size, 5.4 × 7.5 cm. Pp. v. 1883. P. 26.

10. Japan.

365. Japan. Map to illustrate a journey from the city of Yeddo to the mountain of Fusi-yama, performed by Rutherford Alcock, Esq., C. B. 1860. Scale, 22 m. = in. Size, 12.9 × 17.4 cm.

J. xxxi. 1861. P. 321.

366. Japan; reduced from a Japanese map. Scale [ca. 35 m. = in.]. Size, 37 × 20.3 cm.

J. xxxii. 1862. P. 280.

367. Tsu-sima island, in the Strait of Korea; to illustrate the paper by Laurence Oliphant, Esq. 1863. Scale [ca. 5.7 m. = in.]. Size, 11.2 × 18.7 cm.

[Sketch of Korea and adjacent regions to show the position of the island of Tsusima.] Scale [ca. 350 m. = in.]. Size, 6.1 × 4.4 cm.

J. xxxiii. 1863. P. 178.

368. Map of part of Nipon island, to accompany Mr. Adams' report on the central silk districts of Japan. Scale, 28 m. = in. Size, 21.4 × 17.6 cm.

J. xl. 1870. P. 339.

369. The island of Yezo (Japan), to illustrate the papers by Captain T. Blakiston and Commander St. John, R. N. Scale, 49 m. = in. Size, 24.1 × 18.5 cm.

J. xlii. 1872. P. 77.

370. Map to illustrate Mr. Troup's tour [through parts of the provinces of Echigo, Echiu, Kaga, and Noto, Japan, April 3d to May 4th, 1871]. Scale [ca. 15 m. = in.]. Size, 9.7 × 18.4 cm.

J. xlii. 1872. P. 425.

371. A sketch map shewing the position of the public works in Japan, and some of the known products. Drawn by R. H. Brunton, Esq., engineer to the Japanese government. Scale, 123 m. = in. Size, 20.6 × 29.4 cm.

O. H. ii. No. 9. 1872. P. 277.

372. Sketch map of route from Kiôto to Yedo (Japan), to accompany the paper by C. W. Lawrence, Esq. Scale, 30 m. = in. Size, 22.9 × 11.1 cm.

J. xliii. 1873. P. 55.

11. Farther India.

373. Sketch of the River Koladyn (Aracan), to accompany a paper by Captain S. R. Tickell, B. I. N. 1851. Scale, 18 m. = in. Size, 10.7 × 19.7 cm.

J. xxiv. 1854. P. 114.

374. Sketch of Siam and the adjacent states, to illustrate geographical notes on Siam, by Harry Parkes, Esq., Her Britannic Majesty's Consul at Amoy. 1855. Scale, 162 m. = in. Size, 16.3 × 19.3 cm.

J. xxvi. 1856. P. 71.

375. Sketch of the Menam and other Siamese rivers, from the surveys and observations of the American missionaries, communicated by Mr. Consul Parkes, 1855. Scale [ca. 17 m. = in.]. Size, 15 × 19.4 cm.

J. xxvi. 1856. P. 71.

376. Map of Burma and its tributary states; by Captain Henry Yule, Bengal Eng'rs. 1856. Scale, 49 m. = in. Size, 20.1 × 28.6 cm.

J. xxvii. 1857. P. 54.

377. Sketch map from Bangkok in Siam to Pelombing in Cambodia; to accompany the journal of D. O. King, Esq. 1857-58. Scale [ca. 58 m. = in.]. Size, 18.7 × 10.8 cm.

J. xxx. 1860. P. 178.

378. Sketch of the Menam and other Siamese rivers, from the surveys and observations of the American missionaries. Communicated by Mr. Consul Parkes, 1855. Scale, 17.5 m. = in. Size, 15.1 × 19.4 cm.

P. v. 1860-61. [P. 118.]

379. Sketch of Siam and the adjacent states, to illustrate geographical notes on Siam. By Harry Parkes, Esq., Her Britannic Majesty's Consul at Amoy, 1855. Scale, 160 m. = in. Size, 16.3 × 19.3 cm.

P. v. 1860-61. [P. 118.]

380. Map of Cambodia, the Lao country, etc., to illustrate the route and notes of M. Henri Mouhot. 1859-61. Scale, 70 m. = in. Size, 19.2 × 32.1 cm.

J. xxxii. 1862. P. 142.

381. Sketch map to illustrate journal of a tour to Karen-ni, for the purpose of opening a trading road to the Shan traders, from Mobyay and the adjacent Shan states, through Toungu; protracted from the notes, bearings, etc., of Edward O'Riley, Esq. 1862. Scale, 10.5 m. = in. Size, 19.2 × 19.1 cm.

J. xxxii. 1862. P. 164.

382. Map of part of the province of Siemrab (Cambodia), to accompany the paper by Dr. Bastian. Scale, 17 m. = in. Size, 19.6 × 11.8 cm.

J. xxxv. 1865. P. 74.

383. Sketch map of north-eastern India, with portions of Burmah and China, to accompany the paper by Lieutenant Sir Arthur Cotton, R. E. Scale, 97 m. = in. Size, 45.5 × 19.4 cm.

The frontiers of Assam, Burmah, and China on an enlarged scale. Scale, 50 m. = in. Size, 17 × 10.7 cm.

J. xxxvii. 1867. P. 231.

384. Map of the Gulf of Siam and adjacent districts in Laos and Cambodia, to illustrate the journey of Mr. H. G. Kennedy. Scale, 63 m. = in. Size, 18.8 × 21.6 cm.

J. xxxvii. 1867. P. 298.

385. Map of the country between Bhamo and Momein, shewing the route of the expedition under the command of Major E. B. Sladen. Scale, 13 m. = in. Size, 33.5 × 19.3 cm.

[Sketch map of the lower course of the Irrawaddy river.] Scale [ca. 56 m. = in.]. Size, 4.8 × 19.3 cm.

J. xli. 1871. P. 257.

386. Map showing the route from Assam over the Patkoi range into Hookeong, to illustrate the paper by H. L. Jenkins, Esq. Scale, 46 m. = in. Size, 22 × 17.5 cm.

J. xli. 1871. P. 342.

387. Map showing the proposed overland trade routes from India and British Burmah to China, to accompany the paper by J. Coryton, Esq. Scale, 132 m. = in. Size, 33.7 × 27.8 cm.

J. xlv. 1875. P. 229.

388. Map of Further India and south-western China. By E. G. Ravenstein, F. R. G. S. Scale, 1. 5,000,000 [78.91 m. = in.]. Size, 46.8 × 52.6 cm.

G. M. ii. 1875. P. 97.

389. Route map between Bhamo and Mung-Mau through the hills of the Lenna Kahhyens, by Ney Elias, Esq. Scale, 8 m. = in. Size, 29.1 × 18.2 cm. J. xlv. 1876. P. 199.

390. Sketch map of Perak and adjacent native states, to illustrate the paper by W. Barrington D'Almeida. Scale, 28 m. = in. Size, 18 × 23.2 cm. J. xlv. 1876. P. 357.

391. A language map of India and its border lands. E. L. B. and R. N. C. 1877. No. 1. Scale, 138 m. = in. Size, 41.6 × 40.7 cm. G. M. v. 1878. P. 1.

392. A language map of Farther India and the Indian Archipelago. E. L. B. and R. N. C. 1878. No. 2. Scale, 138 m. = in. Size, 55.2 × 47.3 cm. G. M. v. 1878. P. 25.

[Map of Madagascar.] Scale [ca. 330 m. = in.]. Size, 6.4 × 7.9 cm.

393. Map illustrating the paper of Major J. E. Sandeman, Bengal Staff Corps, showing the journey of Pundit Alaga, the sources of the Irawadi river, and its supposed connection with the Sanpo river, compiled from the latest information. Scale, 1:1,250,000 [19.75 m. = in.]. Size, 53.9 × 53.2 cm. Sketch map showing the river system of Tibet, Assam, and Burma. Scale, 125 m. = in. Size, 27.3 × 30.4 cm. Pp. iv. 1882. P. 328.

394. Map of the Malay peninsula. To accompany the paper of Mr. D. D. Daly, superintendent of Public Works and Surveys, Selangor, showing his surveys and explorations in the native states. Scale, 1:1,210,000 [19.09 m. = in.]. Size, 42.4 × 46.8 cm. Pp. iv. 1882. P. 456.

395. Map of the northern part of Perak (Malay peninsula), from a survey by Mr. D. D. Daly, 1877. Scale, 4 m. = in. Size, 33.8 × 46.9 cm. Pp. iv. 1882. P. 456.

12. East Indian Archipelago.

396. Eastern archipelago, to illustrate Mr. W. Earle's paper. 1845. Scale [ca. 62 m. = in.]. Size, 23.8 × 19.5 cm. J. xv. 1845. Art. iii. (Misc.).

397. Part of the n. w. coast of Borneo, to illustrate the paper of Spencer St. John, Esq., H. B. M. Consul General for Borneo. Scale [ca. 6 m. = in.]. Size, 24.9 × 19.2 cm. J. xxxii. 1862. P. 217.

398. Asiatic or Eastern archipelago. Map to illustrate a paper on the physical geography of the Malay archipelago, by Alfred Russell Wallace, Esq. 1863. Scale [ca. 441 m. = in.]. Size, 30 × 18.5 cm. J. xxxiii. 1863. P. 217.

399. Plan of the area on the summit of the Gunong Api, of Banda. Scale, *wanting*. Size, ca. 3.5 × 2 cm. P. xii. 1867-68. P. 330.

400. Sketch map of northern Sumatra, shewing the territories of Achin; chiefly from a recent Dutch map by Colonel W. F. Versteeg. Scale, 47 m. = in. Size, 18 × 16.7 cm.

a. The whole island of Sumatra. Scale [ca. 240 m. = in.]. Size, 7.2 × 10.9 cm.
b. Vicinity of Achin. Scale, 14 m. = in. Size, 7.2 × 5.9 cm.

O. Hh. i. 1873. P. 177.

401. Map shewing the routes of the British India and of the Netherlands' India Steam Navigation Companies. Compiled by E. G. Ravenstein, F. R. G. S. Scale, 1:40,000,000 [631.31 m. = in.]. Size, 35.6 × 23.1 cm. O. Hh. i. 1873. P. 505.

402. Chart [of the north coast of Sumatra] illustrative of Marco Polo and Malay annals. [With the] north coast of Sumatra as shown in modern

charts. Scale [ca. 60 m. = in.]. Size, 13.7 × 9.7 cm. P. xx. 1875-76. P. 220.

403. Map of the Tenimber islands, after Guyot's general map of the Assistant Residency Banda, illustrating the recent discovery of Egeron strait; to accompany the paper by Professor P. J. Veth. Scale, 20.5 m. = in. Size, 15.1 × 18 cm. J. xlviii. 1878. P. 295.

404. A language map of Farther India and the Indian Archipelago. E. L. B. and R. N. C. 1878. No. 2. Scale, 138 m. = in. Size, 55.2 × 47.3 cm. [Map of Madagascar.] Scale [ca. 330 m. = in.]. Size, 6.4 × 7.9 cm. G. M. v. 1878. P. 25.

405. Map of north Borneo, by Mr. W. M. Crocker, Resident of Sarawak. Scale, 58 m. = in. Size, 35 × 22.4 cm.

a. The Residency of Sarawak on an enlarged scale. Scale, 14.5 m. = in. Size, 12.9 × 12 cm.

b. General map of Borneo. Scale, 240 m. = in. Size, 8.7 × 9.3 cm.

Pp. iii. 1881. P. 256.

IV. AFRICA.

1. General.

406. Map of North Africa to illustrate the question "Is the Quorra the Niger of the ancients?" By W. M. Leake. Scale [ca. 350 m. = in.]. Size, 30.4 × 20 cm. J. ii. [1832.] Art. i.

407. Red sea, to illustrate Lieutenant Welsted's papers. Scale [ca. 94 m. = in.]. Size, 12.7 × 18.8 cm. J. vi. 1836. P. 96.

408. Reduced sketch of native Indian chart [of part of the Red sea and Gulf of Aden], to illustrate the paper by Lieutenant A. Burnes, E. I. C. S. Scale [ca. 306 m. = in.]. Size, 17.4 × 5 cm. J. vi. 1836. P. 113.

409. North Africa. Map to accompany a general historical description of the state of human society in northern central Africa by Dr. H. Barth. Scale, 340 m. = in. Size, 34.5 × 23 cm. J. xxx. 1860. P. 112.

410. A sketch to show the relation of the Luabala to the other rivers of Africa. Scale, 410 m. = in. Size, 20.5 × 29.3 cm. O. H. ii. No. 6. 1872. P. 173.

411. [Ancient Portuguese maps of Africa.]

a. Africa from the Insularum illustratum. Henrici Martelli Germani. 1489. Scale [ca. 860 m. = in.]. Size, 17.5 × 14.9 cm.

b. The Nile according to Diogo Homem. 1558. Scale [ca. 1100 m. = in.]. Size, 17.5 × 15.4 cm. O. H. ii. No. 12. 1873. P. [376].

412. A map of the African lake region. Scale, 255 m. = in. Size, 25.7 × 24.1 cm. G. M. v. 1878. P. 145.

413. Part of central Africa north of the equator, from the general map of Africa by Keith Johnston, F. R. G. S. Scale, 135 m. = in. Size, 38.3 × 17 cm. Pp. ii. 1880. P. 336.

2. Barbary.

414. Marocco, from observations in 1830. Scale [24.7 m. = in.]. Size, 37.5 × 37.7 cm.

City of Marocco (Marraksh Blad Kibira). Scale [6,072 ft. = in.]. J. [i.]. 1830-31. No. 4. Art. x.

415. Part of the west coast of Africa, surveyed in 1835. Scale [ca. 46 m. = in.]. Size, 22.2 × 19.5 cm., and 14.9 × 19.5 cm. J. vi. 1836. P. 311.

416. Route of Sir Grenville Temple from Bónah to Kōstanīnah, in Algiers. 1838. Scale, 17 m. = in. Size, 11.3 × 17.5 cm. J. viii. 1838. P. 52.

417. Benzert lakes [Tunis]. Surveyed by Commander T. Graves. 1845. Scale [ca. 2 m. = in.]. Size, 31.5 × 45.2 cm. J. xvi. 1846. Art. xii.

418. Sketch of a route from Tripoli to Ghadamis by C. H. Dickson, British Vice-Consul. 1851. Scale [ca. 30 m. = in.]. Size, 25.7 × 19.3 cm. J. xxii. 1852. Art. ix.

419. Mission to Central Africa. The route from Tripoli to Kuka (near Lake Chád); performed by Dr. Edward Vogel, 1853-54. Scale [ca. 97 m. = in.]. Size, 19.4 × 37.3 cm. J. xxv. 1855. P. 244.

420. North Africa. Map showing the caravan routes between Tripoli and Ghadamis, to accompany the account of Ghadamis by C. H. Dickson, Esq. Scale, 30 m. = in. Size, 26.3 × 19.3 cm. J. xxx. 1860. P. 257.

421. Map of a part of the Sahara, illustrating a paper by M. H. Duveyrier. Scale, 1: 7,500,000 [118.37 m. = in.]. Size, 24.1 × 15.4 cm. O. Hh. i. 1873. P. 94.

3. Sahara.

422. West coast of Africa, to illustrate Captain Belcher's observations. Scale [ca. 115 m. = in.]. Size, 11.1 × 20.7 cm. J. ii. [1832.] Art. iv. (Misc.).

423. Part of the west coast of Africa, surveyed in 1835. Scale [ca. 46 m. = in.]. Size, 22.2 × 19.5 cm., and 14.9 × 19.5 cm. J. vi. 1836. P. 311.

424. Dr. Barth's route from Tin-Tellust to Agadéz. Scale, 1: 890,000 [14.04 m. = in.]. Size, 20.3 × 26 cm. J. xxxix. 1869. P. 343.

a. Outline of part of Africa showing the progress of the Mission to August, 1851. Scale [ca. 412 m. = in.]. Size, 9.5 × 15.3 cm.

b. Plan of Agadéz. Scale [ca. 1220 ft. = in.]. Size, ca. 6 × 5 cm. J. xxi. 1851. Art. xi.

425. Mission to Central Africa. The route from Tripoli to Kuka (near Lake Chád); performed by Dr. Edward Vogel, 1853-54. Scale [ca. 97 m. = in.]. Size, 19.4 × 37.3 cm. J. xxv. 1855. P. 244.

426. Map of the western Sahara. By E. G. Ravenstein, F.R.G.S. Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 39.9 × 31.4 cm. G. M. iii. 1876. P. 13.

4. Sudan.

427. The rivers Kwóra and Chadda or Binue, from the Nun mouth of the former to the country of Adamáwa on the latter; to illustrate the journal of Dr. William Balfour Baikie, R. N. Drawn by John Arrowsmith. 1855. Scale [ca. 52 m. = in.]. Size, 22.4 × 20.9 cm. J. xxv. 1855. P. 109.

428. Map to accompany notes of a journey from Bida, in Nupe, to Kano, in Haussa; performed by Dr. W. B. Baikie, R. N., 1862. Scale, 36 m. = in. Size, 26.4 × 19.4 cm. J. xxxvii. 1867. P. 92.

429. Map illustrating Dr. Nachtigall's travels, 1859-74. Chiefly from Dr. Nachtigall's maps published in the 'Zeitschrift' of the Berlin Geographical Society, and in Petermann's 'Mittheilungen.' By E. G. Ravenstein. Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 40.7 × 48.4 cm. G. M. ii. 1875. P. 178.

430. Map of Lake Chad and neighbouring regions, to illustrate the paper by Dr. Nachtigall. Scale, 400 m. = in. Size, 11.5 × 19.9 cm. J. xli. 1876. P. 397.

5. Nile and Red Sea Districts.

431. Map of the Egyptian desert between Kench and Suez. By J. Wilkinson, Esq. Scale [33.3 m. = in.]. Size, 19.8 × 22.9 cm. J. ii. [1832.] Art. ii.

432. Upper countries of the Nile, to illustrate M. Linant's journey. Scale, 111 m. = in. Size, 23 × 19.7 cm. J. ii. [1832.] Art. i. (Anal.).

433. Province of Sennar. Scale [ca. 66 m. = in.]. Size, 11.4 × 17.7 cm. J. v. 1835. P. 58.

434. The Red sea, from the late surveys. 1835. Scale [ca. 195 m. = in.]. Size, 11.3 × 17.4 cm. J. v. 1835. P. 296.

435. The Nile from Essuan to Al-leis, to illustrate a journey to Kordofan, by A. T. Holroyd, Esq., 1836-37. Scale [65.1 m. = in.]. Size, 11.4 × 19.5 cm. J. ix. 1839. P. 190.

436. [Sketch-map showing the direction of one of the dykes on the Nile.] Scale, *wanting*. Size, 5.2 × 1.8 cm. J. ix. 1839. P. 440. No. 2.

437. [Sketch-map of the plain of Thebes, showing the position of the temple and statues.] Scale, 450 ft. = in. Size, 9.3 × 3 cm. J. ix. 1839. P. 440. No. 4.

438. Wady Natrún, or valley of the natron lakes, by Sir J. G. Wilkinson, 1843. Scale, 6 m. = in. Size, 28.9 × 18.8 cm. J. xiii. 1843. Pt. i. Art. iv.

439. Map to illustrate the explorations in eastern Africa by Count Carl Krockow. Scale, 16 m. = in. Size, 20.4 × 22.9 cm. J. xxxvi. 1866. P. 200.

440. The peninsula of Mount Sinai. A sketch from observations on the ground, by the Rev. F. W. Holland, M. A. London: Stanford's Geographical Establishment. 1868. Scale, 8 m. = in. Size, 41.3 × 40.7 cm. J. xxxix. 1869. P. 343.

441. Map showing route of the electric telegraph from Suakin to Ra-sai. Reduced from the map by the late Captain L. Rokeby, R. M. Scale, ca. 10 m. = in. Size, 17.5 × 44.5 cm. J. xlv. 1874. P. 153.

442. A traverse survey of the White Nile from Khartum to Rigaf by Lieutenants Watson and Chippendall, R. E. Scale, 36 m. = in. Size, 57.2 × 18 cm. J. xli. 1876. P. 413.

443. Map of routes in Kordofan and Darfur, constructed from the reconnaissances made by officers of the Egyptian General Staff 1875-76, by W. J. Turner. Scale, 1: 2,253,080 [35.56 m. = in.]. Size, 46 × 33 cm. J. xlix. 1879. P. 393.

6. Abyssinia and Somali.

(Including Afar.)

444. Isenberg and Krapf's route from Tájurrah to Shoá [Abyssinia] in 1840. Scale, 97 m. = in. Size, 11.6 × 13.1 cm. J. x. 1841. P. 455.

445. Sketch of a route from Ankober to Gédem [Abyssinia], to illustrate Dr. C. T. Beke's journal. 1842. Scale, 7.2 m. = in. Size, 11.3 × 20.1 cm. J. xii. 1842. Pt. i. Art. v. [vi.].

446. Map illustrating Dr. Beke's journey through Abyssinia, 1840-1843. Scale, 34 m. = in. Size, 34.4 × 41.2 cm. J. xiv. 1844. Art. i.

447. Sketch of the lower courses of the Jubb and Haines rivers, on the northeast coast of Africa. By Lieutenant W. Christopher, R. N., 1843. Scale, 46 m. = in. Size, 21.3 × 18.6 cm. J. xiv. 1844. Art. ii.

448. Sketch of the Regio aromatífera, to illustrate Mr. Cooley's paper. Scale [ca. 97 m. = in.]. Size, 23.3 × 19 cm. J. xix. 1849. Art. xvi.

449. [Abyssinian expedition, 1867-68.] Map

showing the line of march from the coast to Adigerat. Scale, 7 m. = in. Size, 36.7 × 32.3 cm.

J. xxxviii. 1868. P. 12.
450. [Abyssinian expedition, 1867-68.] Line of march from Adigerat to the River Takkazyé. Scale, 7 m. = in. Size, 57.3 × 19.3 cm.

J. xxxviii. 1868. P. 25.
451. [Abyssinian expedition, 1867-68.] Wadela and Dalanta plateaux and Mágdala. Scale, 7 m. = in. Size, 18.9 × 19.1 cm. J. xxxviii. 1868. P. 35.

452. Map of part of Abyssinia, to illustrate Dr. Blanc's journey from Metemma to Damot. Scale, 19 m. = in. Size, 18.7 × 27.5 cm.

J. xxxix. 1869. P. 36.
453. Map of the Afar country, and the northern part of the Abyssinian highlands, to illustrate the journey of W. Munzinger, Esq., late H. B. M. Consul at Massowa. Scale, 14 m. = in. Size, 18.8 × 27.4 cm. J. xxxix. 1869. P. 188.

454. [Sketch map of the countries bordering the southern portion of the Red sea and the Gulf of Aden, to show the districts producing myrrh.] Scale [ca. 186 m. = in.]. Size, 12 × 7.9 cm. O. Hh. i. 1873. P. 11.

7. Upper Guinea and Senegambia.

455. The course of the Quorra, the Joliba, or Niger of Park, from the journals of Messrs. Richard and John Lander, with their route from Badagry to the northward, in 1830. Scale [ca. 48 m. = in.]. Size, 27.5 × 30.4 cm. J. [i.] 1830-31. Art. xiii.

456. West coast of Africa, to illustrate Captain Belcher's observations. Scale [ca. 115 m. = in.]. Size, 11.1 × 20.7 cm.

J. ii. [1832.] Art. iv. (Misc.).
457. Sketch to illustrate paper on the supposed junction of the Gambia and Casamanza rivers. Scale [ca. 50 m. = in.]. Size, 19.6 × 11.3 cm.

J. iii. 1833. Art. iv.
458. Part of Súdán, shewing the supposed course of the Chadda from Lake Chad, by Captain W. Allen, R. N. Scale, 113 m. = in. Size, 16.3 × 18.8 cm. J. viii. 1838. P. 306.

459. Africa; the lower course of the river Kawara [Quorra]. 1841. Scale [51.1 m. = in.]. Size, 13.2 × 20.8 cm. J. xi. 1841. P. 184.

460. The Old Calabar, or Cross, river from Seven Fathoms Point to Ethiopie rapids. From a chart by Mr. J. B. King, surgeon of the Ethiopie steamer. 1842. Scale, 21 m. = in. Size, 22.4 × 19.4 cm.

J. xiv. 1844. Art. xiv.
461. Sketch of the mouths of the Jamoor river [Cameroon district]. Scale, 47 m. = in. Size, 9.9 × 16.2 cm. J. xvi. 1846. Art. xiii.

462. The rivers Kwóra and Chadda, or Binue, from the Nun mouth of the former to the country of Adamáwa on the latter; to illustrate the journal of Dr. William Balfour Baikie, R. N. Drawn by John Arrowsmith. 1855. Scale [ca. 52 m. = in.]. Size, 22.4 × 20.9 cm. J. xxv. 1855. P. 189.

463. Western Africa, to illustrate travels in the Yóruba and Núpe countries, performed by Daniel J. May, Esq., R. N. 1858. Scale, 27 m. = in. Size, 23.5 × 19.2 cm. J. xxx. 1860. P. 212.

464. Map of the British territories on the Gold and Slave coasts (Western Africa), with portions of Ashanti, Dahome, and Yoruba. Compiled by E. G. Ravenstein, F. R. G. S. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 49.6 × 25.2 cm.

O. Hh. i. 1873. P. 148.
465. Map of the former Dutch possessions on the Gold Coast, comprising the country between Axim and El-Mina. By Lieutenant C. A. Jeekel, R.

Dutch Navy. Scale, 1: 250,000 [3.95 m. = in.]. Size, 47 × 28.1 cm. O. Hh. i. 1873. P. 284.

466. Map of the route from Cape Coast Castle to Kumassi [Gold coast]. From a map prepared at the Topographical Department of the War Office, and based upon reconnaissance surveys by officers with the expeditionary force. Scale, 1: 750,000 [11.84 m. = in.]. Size, 17.2 × 26.6 cm.

O. Hh. i. 1873. P. 448.
467. A map of the lower Volta river (Western Africa). By E. G. Ravenstein. This map is based mainly upon the admiralty charts, the published maps of the missionaries Locher and Plessing, and Hornberger and Brutschin, and a MS. map by H. Laissle, architect and engineer of the Basel Miss. Soc., dated Akropong, March, 1862. Scale, 1: 750,000 [11.84 m. = in.]. Size, 25.6 × 19.8 cm.

O. Hh. i. 1873. P. 454.
468. Chart of creeks and rivers between Bonny and Brass rivers [Niger delta]. Surveyed by R. D. Bolter and R. Knight. September, 1874. Scale, 8.6 m. = in. Size, 21.3 × 19.2 cm.

J. xvi. 1876. P. 411.
469. Map of the Volta [western Africa] from a map by M. J. Bonnat. Published in L'Explorateur. Scale [ca. 12 m. = in.]. Size, 13.8 × 45 cm.

G. M. iii. 1876. P. 291.
470. West Africa. The vicinity of Mount Cameroons from a drawing by the Rev. T. J. Comber, Baptist Missionary Society. 1877. Scale, 10.5 m. = in. Size, 23.6 × 21.4 cm. Pp. i. 1879. P. 288.

471. Map of the Cameroons district, to illustrate the paper by Mr. George Greenfell. Scale, 7.7 m. = in. Size, 36 × 26.1 cm. Pp. iv. 1882. P. 648.

8. Equatorial Africa.

A. Western.

472. Map of southern central Africa. By James McQueen, Esq. 1856. Scale [ca. 174 m. = in.]. Size, 29.9 × 19.2 cm. J. xxvi. 1856. P. 109.

473. Central Africa; showing the route of Silva Porto from Benguela to Cape Delgado, in 1853-54; also the sources of the Nile, and the countries around them, by James Macqueen, Esq. Scale [ca. 196 m. = in.]. Size, 37.1 × 26.1 cm.

J. xxx. 1860. P. 136.
474. Map illustrating M. du Chaillu's routes in equatorial Africa in 1864-65. Scale, 11.5 m. = in. Size, 41.1 × 20.3 cm.

Sketch map of part of western Africa. Scale [ca. 270 m. = in.]. Size, 6.6 × 6.4 cm.

J. xxxvi. 1866. P. 64.
475. Dr. Livingstone's routes, 1866 to 1872. By A. Keith Johnston. Scale, 148 m. = in. Size, 20.6 × 27.8 cm. O. H. ii. No. 4. 1872. P. [102].

476. Sketch map illustrating Dr. G. Schweinfurth's travels in the country of the Niam Niam and in Dar Fertit. 1869-1871. Constructed by E. G. Ravenstein. Scale, 1: 4,000,000 [63.13 m. = in.]. Size, 19.6 × 30.6 cm.

[Sketch map of central Africa, showing Dr. Schweinfurth's routes.] Scale [ca. 458 m. = in.]. Size, 12.2 × 11.3 cm. O. H. ii. No. 8. 1872. P. 247.

477. The valley of the Congo. Drawn for "Ocean highways: the geographical record," by Lieutenant Grandy, R. N. Scale, 100 m. = in. Size, 30.1 × 20.4 cm.

O. H. ii. No. 9. 1872. P. 274.
478. Map of tropical south Africa, illustrating the progress of geographical discovery. By E. G. Ravenstein, F. R. G. S. Scale, 1: 10,000,000 [157.83 m. = in.]. Size, 41.5 × 29.1 cm.

G. M. ii. 1875. P. 1.

479. Map illustrating Dr. Nachtigall's travels, 1869-74. Chiefly from Dr. Nachtigall's maps published in the 'Zeitschrift' of the Berlin Geographical Society and in Petermann's 'Mittheilungen.' By E. G. Ravenstein. Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 40.7 × 48.4 cm.

G. M. ii. 1875. P. 178.

480. Reduction of Lieutenant Cameron's preliminary map of his route, and the adjacent country, between Lake Tanganyika and Lovale, 1874-75; with continuation from the maps of Dr. Livingstone and other travellers. Scale, 48 m. = in. Size, 71.8 × 38.2 cm.

P. xx. 1875-76. P. 119.

481. West Africa. Reduction of Lieutenant Grandy's map of his route from Ambriz to the River Congo, 1873-74. Scale, 23 m. = in. Size, 34.6 × 29.1 cm.

J. xlvii. 1876. P. 428.

482. Chart of the Quanza river from the bar to the Livingstone falls. Surveyed and drawn by Carl Alexanderson, 1873-74. Scale, 5 m. = in. Size, 65.3 × 18.7 cm.

J. xlvii. 1876. P. 429.

483. Stanley's map of the Congo river, 1876-77. Reduced from the map published in the "Daily Telegraph." Scale [ca. 130 m. = in.]. Size, 25.8 × 18 cm.

G. M. iv. 1877. P. 318.

484. Map of the upper Binué river, from a survey by Mr. E. R. Flegel, of the Church Missionary Society's expedition, 1879; in continuation of Admiralty chart no. 2446 on same scale. Scale, 4.6 m. = in. Size, 81.9 × 22.5 cm. Pp. ii. 1880. P. 336.

485. West Africa. Sketch map of explorations in the neighbourhood of St. Salvador (Congo), by the Rev. T. J. Comber, 1880. Scale, 33 m. = in. Size, 41.8 × 22 cm.

Pp. iii. 1881. P. 64.

486. [Sketch map of the Nyam Nyam country, to illustrate Dr. Junker's journey.] Scale [ca. 137 m. = in.]. Size, 5.4 × 6.6 cm.

Pp. iii. 1881. P. 301.

487. Buchner's and Pogge's routes in West Africa, 1878-81. Scale, 1: 8,000,000 [126.26 m. = in.]. Size, 19 × 10.7 cm.

Pp. iv. 1882. P. 679.

488. The Congo river from its mouth to Bolobo, to illustrate the journeys of Mr. H. H. Johnston. Scale, ca. 40 m. = in. Size, 43.3 × 21.3 cm.

Pp. v. 1883. P. 632.

489. Physical map of west coast of Africa, by H. H. Johnston. Scale [ca. 229 m. = in.]. Size, 11 × 21.3 cm.

Pp. v. 1883. P. 752.

490. Pogge and Wissmann's route from Kasai to Nyangwe, 1881-82. From Lieutenant Wissmann's original sketches. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 36.2 × 20 cm.

Lake Munkamba. Scale, 1: 400,000 [6.31 m. = in.]. Size, 3.8 × 2.8 cm.

Pp. v. 1883. P. 184.

B. Eastern.

491. Upper countries of the Nile, to illustrate M. Linant's journey. Scale, 111 m. = in. Size, 23 × 19.7 cm.

J. ii. [1832.] Art. i. (Anal.)

492. Sketch of the countries south of Abyssinia; (from oral information collected in Gojam) by Dr. Beke. 1843. Scale, 62 m. = in. Size, 11 × 17.4 cm.

J. xiii. 1843. Pt. 2. Art. iv.

493. Map of the countries south of Abyssinia, drawn under the dictation of 'Omar ibn Nedjât by Dr. Beke. Yejubbî, 9th February, 1843. Scale, wanting. Size, 16.1 × 19.8 cm.

J. xvii. 1847. Art. i.

494. The sea of Uniamesi, etc. By the Rev. Messrs. Erhardt and Rebmán, of the Church Missionary Society, 1855. Scale [ca. 180 m. = in.]. Size, 22.8 × 18.5 cm.

P. i. 1855-57. [P. 8.]

495. Map of southern central Africa. By James McQueen, Esq. 1856. Scale [ca. 174 m. = in.]. Size, 29.9 × 19.2 cm.

J. xxvi. 1856. P. 109.

496. East Africa expedition. Pangani to Fuga; a route survey by Captains Burton and Speke. 1857. Scale, 8.5 m. = in. Size, 18.4 × 11.9 cm.

Pangani to Chogwe. Scale, 3 m. = in. Size, 9.2 × 3.3 cm.

J. xxviii. 1858. P. 188.

497. East Africa expedition. Map of the routes between Zanzibar and the great lakes in eastern Africa, in 1857, 1858, and 1859, by Captains R. F. Burton and J. H. Speke. Constructed from the observations of Captain Speke by A. G. Findlay, F. R. G. S. Scale, 34 m. = in. Size, 60.2 × 37.8 cm.

J. xxix. 1859. P. 464.

498. Central Africa; showing the route of Silva Porto from Benguela to Cape Delgado, in 1853-54; also the sources of the Nile, and the countries around them, by James Macqueen, Esq. Scale [ca. 196 m. = in.]. Size, 37.1 × 26.1 cm.

J. xxx. 1860. P. 136.

499. Sources of the Nile. Rough sketch of countries north and south of the equator on the meridian of Khartum. Scale, 240 m. = in. Size, 12 × 19 cm.

[Sketch map of Africa for comparison.] Scale [ca. 4,000 m. = in.]. Size, 3.6 × 3.5 cm.

P. v. 1860-61. P. 20.

500. Map of the routes in eastern Africa between Zanzibar, the great lakes, and the Nile. Explored and surveyed by Captain J. H. Speke, 1857-1863. Scale, 30 m. = in. Size, 58.4 × 7.5 cm.

J. xxxiii. 1863. P. 322 [346].

501. Map of the snowy mountains Kilima-ndjaro, illustrating the paper of Baron C. Von der Decken. Scale, 8.33 m. = in. Size, 19.4 × 19.4 cm.

Sketch map of Baron C. Von der Decken's journeys from the east coast of Africa to Mt. Kilima-ndjaro. Scale, 76 m. = in. Size, 6.6 × 6.5 cm.

J. xxxiv. 1864. P. 1.

502. The Nile and its western affluents, between the Albert Nyanza on the south, and the Sobat on the north; founded on the astronomical observations, bearings, and distances of John Petherick, Esq., as well as numerous other documents; constructed by John Arrowsmith. 1865. Scale, 37 m. = in. Size, 20 × 35.8 cm.

J. xxxv. 1865. P. 289.

503. A map of the Albert N'yanza and of the routes leading to its discovery in 1864. By Samuel White Baker, Esq. Scale, 32.5 m. = in. Size, 33.1 × 47.7 cm.

P. x. 1865-66. [P. 7.]

504. A map of the Albert N'yanza, and of the routes leading to its discovery in 1864. By Samuel White Baker, Esq. Scale, 33 m. = in. Size, 33.1 × 48.7 cm.

J. xxxvi. 1866. P. 1.

505. Sketch of the supposed route of Dr. Livingstone, and probable place of the attack by the M'vite. By J. Kirk, M.D., H. M. Vice Consul, Zanzibar. Scale, 72 m. = in. Size, 18.8 × 11.4 cm.

P. xi. 1866-67. P. 125.

506. The east African lakes, shewing their relation to the source of the Nile. Scale, 244 m. = in. Size, 13.6 × 19.2 cm.

No. 1. Burton and Speke, May, 1858. Scale [ca. 117 m. = in.]. Size, 12 × 19 cm.

No. 2. Speke, 1859. Scale [ca. 117 m. = in.]. Size, 13.1 × 19 cm.

No. 3. Speke and Grant, 1863. Scale [ca. 117 m. = in.]. Size, 8.8 × 18.9 cm.

No. 4. Sir S. W. Baker, 1864. Scale [ca. 117 m. = in.]. Size, 10.1 × 19 cm.

J. xxxvii. 1867. P. 193.

507. A map showing the routes of some native caravans from the coast into the interior of eastern Africa, from information collected by the Rev. T. Wakefield, missionary at Mombasa; also of two personal journeys to the southern Galla country, made by the Revs. T. Wakefield and C. New in 1865 and 1866-67. Scale, 33 m. = in. Size, 48.2 × 39.7 cm. J. xi. 1870. P. 303.

508. Dr. Livingstone's routes, 1866 to 1872. By A. Keith Johnston. Scale, 148 m. = in. Size, 20.6 × 27.8 cm. O. H. ii. No. 4. 1872. P. [102].

509. A sketch to show the relation of the Luabala to the other rivers of Africa. Scale, 410 m. = in. Size, 20.5 × 29.3 cm.

O. H. ii. No. 6. 1872. P. 173.

510. Dr. Livingstone's recent discoveries, and the former English and Portuguese routes in the lake region. Scale, 110 m. = in. Size, 20.5 × 29.3 cm. O. H. ii. No. 6. 1872. P. 174.

511. Sketch map illustrating Dr. G. Schweinfurth's travels in the country of the Niam Niam and in Dar Fertit. 1869-1871. Constructed by E. G. Ravenstein. Scale, 1: 4,000,000 [63.13 m. = in.]. Size, 19.6 × 30.6 cm.

[Sketch map of central Africa, showing Dr. Schweinfurth's routes.] Scale [ca. 458 m. = in.]. Size, 12.2 × 11.3 cm.

O. H. ii. No. 8. 1872. P. 247.

512. [Sketch map showing Mr. Stanley's routes eastward of Lake Tanganyika.] Scale [ca. 65 m. = in.]. Size, 11 × 5.3 cm.

O. H. ii. No. 9. 1872. P. 280.

513. [Sketch map showing Mr. Stanley's route from Bagamoyo to the Usagara mountains.] Scale [ca. 440 m. = in.]. Size, 9.3 × 5.1 cm.

O. H. ii. No. 9. 1872. P. 280.

514. [Sketch map of the northern end of Lake Tanganyika.] Scale, 14 m. = in. Size, 6.4 × 7.7 cm. O. H. ii. No. 9. 1872. P. 281.

515. Sketch map shewing the route of Sir Samuel Baker [from Gondokoro to Masindi], 1871-73. Scale, 33 m. = in. Size, 16.4 × 26.6 cm.

O. H. ii. 1873. P. 221.

516. Map of the two main mouths of the River Lufigi [East Africa]. From a sketch by Captain Wharton, H. M. S. Shearwater. Scale, 4 m. = in. Size, ca. 9 × 16 cm. P. xviii. 1873-74. P. 75.

517. (East coast of Africa.) The slave caravan route from Dar-es-Salam to Kilwa [Zangebar], to accompany the paper by Captain F. Elton. Scale, 96 m. = in. Size, 19.2 × 39.8 cm. J. xlv. 1874. P. 227.

518. Sketch map shewing Lieutenant Cameron's route to Lake Tanganyika. Scale, 1: 1,500,000 [23.66 m. = in.]. Size, 25.5 × 17.6 cm. G. M. i. 1874. P. 180.

519. Map of Lake Tanganyika from Ujiji to its southern extremity. Reduced from the map by Lieutenant V. Lovett Cameron, R. N. Scale, 11.5 m. = in. Size, 18.1 × 74.4 cm. P. xix. 1874-75. P. 75.

520. Sketch map of route from Gondokoro to Dufli, by J. Kemp, Esq., September-October, 1874. Scale, ca. 1: 850,000 [13.41 m. = in.]. Size, ca. 9 × 15 cm. P. xix. 1874-75. P. 325.

521. Map of Lake Tanganyika from Ujiji to its southern extremity. Reduced from the map by Lieutenant V. Lovett Cameron, R. N. Scale, 11.5 m. = in. Size, 18.1 × 74.2 cm. J. xlv. 1875. P. 184.

522. Track and soundings of steam cutter up the Rufiji River, by Captain Sullivan, R. N., assisted by Sub-Lieutenant F. J. Grassie, R. N., H. M. S. "London," 24th February, 1875. Scale, *wanting*. Size, 11 × 19.4 cm. J. xlv. 1875. P. 365.

523. Map of tropical South Africa, illustrating the progress of geographical discovery. By E. G. Ravenstein, F. R. G. S. Scale, 1: 10,000,000 [157.83 m. = in.]. Size, 41.5 × 29.1 cm. G. M. ii. 1875. P. 1.

524. Map of the southern Tanganyika, from a sketch survey by Lieutenant V. Lovett Cameron, R. N. Scale, 1: 1,000,000 [15.78 m. = in.]. Size, 28.7 × 46.2 cm. G. M. ii. 1875. P. 72.

Lake Tanganyika, according to Dr. Livingstone and Lieutenant Cameron. Scale [ca. 62 m. = in.]. Size, 11.3 × 15.5 cm.

525. The dominions of the Seyyid Barghash Bin Said of Zanzibar. By E. G. Ravenstein. Scale, 1: 3,430,000 [54.13 m. = in.]. Size, 19.2 × 36.8 cm. The Somali coast. Scale, 1: 3,430,000 [54.13 m. = in.]. Size, 10.5 × 9.5 cm. G. M. ii. 1875. P. 208.

526. Map of the Victoria Nyanza, principally according to H. M. Stanley, by E. G. Ravenstein. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 26.1 × 22.9 cm. G. M. ii. 1875. P. 369.

527. Map of the regions of the upper Nile. From the explorations of Burton, Speke, Grant, Baker, Kemp, Marno, Long, Stanley, Cameron, and others. By E. G. Ravenstein. Scale, 1: 4,000,000 [63.13 m. = in.]. Size, 23.7 × 31.9 cm. G. M. ii. 1875. P. 373.

528. Reduction of Lieutenant Cameron's preliminary map of his route, and the adjacent country, between Lake Tanganyika and Lovale, 1874-75; with continuation from the maps of Dr. Livingstone and other travellers. Scale, 48 m. = in. Size, 71.8 × 38.2 cm. P. xx. 1875-76. P. 119.

529. Stanley's map of the Victoria N'yanza adapted to the observations and topography of Captain Speke and Colonel Grant by W. J. Turner. Scale, 34 m. = in. Size, 24.7 × 19.8 cm. P. xx. 1875-76. P. 135.

530. Map of the Victoria N'yanza as delineated by Mr. H. M. Stanley. Scale, 44 m. = in. Size, 18.3 × 19.8 cm. P. xx. 1875-76. P. 135.

531. Map of the Victoria N'yanza, compiled from the original maps of Captain Speke, Colonel Grant, and Mr. Stanley, adapted to the recorded observations of Captain Speke by W. J. Turner. Scale, 33.5 m. = in. Size, 24.6 × 19.8 cm. J. xlv. 1876. P. 11.

532. Map of the north-west portion of the Victoria Nyanza, constructed from Colonel Grant's original map and bearings, adapted to the astronomical observations of Captain Speke by W. J. Turner. Scale, 24 m. = in. Size, 15.5 × 18.1 cm. J. xlv. 1876. P. 13.

533. A traverse survey of the White Nile from Khartum to Rigaf by Lieutenants Watson and Chipendall, R. E. Scale, 36 m. = in. Size, 57.2 × 18 cm. J. xlv. 1876. P. 413.

534. Map of the White Nile from Lardo to Urondogani, by Colonel Gordon, C. B., R. E. Surveyed in 1875-76. Scale, 35 m. = in. Size, 15.9 × 26 cm. J. xlv. 1876. P. 431.

535. The country between Tanganyika and Nyangwe according to Livingstone and Cameron. By E. G. Ravenstein. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 24.8 × 16.4 cm. G. M. iii. 1876. P. 57.

536. Map of the Victoria and Albert Nyanzas, to illustrate the last discoveries of H. M. Stanley. Scale, 1: 3,250,000 [51.10 m. = in.]. Size, 22.8 × 26.5 cm.

[Map of the southwestern portion of the Victoria Nyanza.]
Scale [ca. 32 m. = in.]. Size, 64 × 10 cm.
G. M. iii. 1876. P. 245.

537. R. Gessi's survey of the Albert Nyanza, from the maps published by the Egyptian General Staff (General Stone). Scale, 1: 1,000,000 [15.78 m. = in.]. Size, 22.7 × 37.2 cm.
G. M. iii. 1876. P. 247.

538. Map of the upper Nile, to illustrate the reports of Colonel Gordon and M. Gessi, by W. J. Turner. Scale, 58 m. = in. Size, 11.5 × 18 cm.
P. xxi. 1876-77. P. 56.

539. Map of the Rufu or Kingani river (eastern Africa), to accompany the paper by Frederick Holmwood, Esq. Scale, 6 m. = in. Size, 18.9 × 23.6 cm.
J. xlvii. 1877. P. 253.

540. The Nile from M'ruli to Dufli, from croquis by General Gordon Pasha. 1876. Scale, 15.5 m. = in. Size, 15.4 × 24 cm.
G. M. iv. 1877. P. 67.

541. Map of the Alexandra Nile, by H. M. Stanley. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 16.9 × 15.9 cm.
G. M. iv. 1877. P. 124.

542. A sketch map of the country round Lake N'yassa. Scale, 38 m. = in. Size, 46.4 × 50.9 cm.
G. M. iv. 1877. P. 206.

543. Map of the Lukuga, by H. M. Stanley. Scale, 1: 100,000 [1.58 m. = in.]. Size, 16.1 × 16.1 cm.
G. M. iv. 1877. P. 124.

544. East Africa. Sketch map of route from Lake Nyassa to Ugogo, by Mr. H. B. Cotterill. Scale, 29 m. = in. Size, 19 × 26.6 cm.
P. xxii. 1877-78. P. 233.

545. Sketch map of country between Kilwa Kavinje and River Rovouma, by Alfred Bellville, F. R. G. S., late Universities Mission to L. Nyassa. Scale [ca. 34 m. = in.]. Size, 24.7 × 17.6 cm.
G. M. v. 1878. P. 76.

546. East Africa. Map of southern Usambara by the Rev. J. P. Farler. Scale, ca. 10 m. = in. Size, 19 × 10.7 cm.
Pp. i. 1879. P. 83.

547. Route survey of the western side of Lake Nyassa by Mr. James Stewart, C. E., Livingstonia mission. 1878. Scale, 13 m. = in. Size, 22.5 × 50 cm.
G. M. v. 1878. P. 76.

Northern continuation of Nyassa on a smaller scale, to illustrate Dr. Stewart's paper. Scale, 37 m. = in. Size, 5.2 × 11.4 cm.
Pp. i. 1879. P. 352.

548. East Africa. Sketch map of native routes from Dar-es-Salaam towards the head of Lake Nyassa, from information obtained by Mr. Keith Johnston, R. G. S. East African Expedition, 1879. Scale, 35 m. = in. Size, 34.4 × 21.5 cm.
Pp. i. 1879. P. 480.

549. East Africa. Map of Mr. Keith Johnston's route in southern Usambara, 1879, reduced from his original drawing. Scale, 10.5 m. = in. Size, 20.1 × 13 cm.
Pp. i. 1879. P. 616.

550. Sketch map of the route of the R. G. S. East African Expedition from Dar-es-Salaam to Lake Nyassa, 1879. Scale, 35.5 m. = in. Size, 34.4 × 21.5 cm.
Pp. ii. 1880. P. 144.

551. Route survey between lakes Nyassa and Tanganyika by Mr. James Stewart, C. E., Livingstonia mission. 1879. Scale, 13 m. = in. Size, 46.1 × 22.8 cm.
Pp. ii. 1880. P. 464.

552. Route survey of the western side of Lake Nyassa (northern portion) by Mr. James Stewart, C. E., Livingstonia mission. 1879. Scale, 13 m. = in. Size, 22.3 × 35.6 cm.
Pp. ii. 1880. P. 464.

553. Map of the route of the R. G. S. East African expedition to lakes Nyassa and Tanganyika, constructed from Mr. Thomson's original map col-

lated with the routes of other explorers by W. J. Turner. Scale, 42 m. = in. Size, 50.1 × 22.1 cm.
Pp. ii. 1880. P. 784.

554. Map of route from Kagéi to Tabora, by Rev. C. T. Wilson, 1877; to illustrate his paper at page 616. Scale, 25 m. = in. Size, 9.7 × 21.3 cm.
Pp. ii. 1880. P. 784 [656].

555. [Sketch map of the Nyam Nyam country, to illustrate Dr. Junker's journey.] Scale [ca. 137 m. = in.]. Size, 5.4 × 6.6 cm.
Pp. iii. 1881. P. 301.

556. Map of the north end of Lake Nyassa, surveyed by Mr. James Stewart, C. E., Livingstonia Mission. 1880. Scale, 12.5 m. = in. Size, 25 × 21.8 cm.
Pp. iii. 1881. P. 320.

557. Route through northern Ugogo (August, 1879), by E. J. Southon, M.D. Scale, 27.6 m. = in. Size, 10.6 × 5.7 cm.
Dr. Southon's route combined with the routes of other explorers. Scale [ca. 48 m. = in.]. Size, 6.1 × 2.9 cm.
Pp. iii. 1881. P. 547.

558. Sketch map of the River Rufugi, from a survey by W. Beardall, Zanzibar, March, 1881. Scale, 1: 558,195 [8.8 m. = in.]. Size, 50 × 21.5 cm.
Pp. iii. 1881. P. 704.

559. Lake Tanganyika. From a survey by Mr. Edward C. Hore, Master Mariner, of the London Missionary Society. Scale, 23 m. = in. Size, 21 × 46.1 cm.
Pp. iv. 1882. P. 64.

560. The southern part of Lake Tanganyika (Lake Liemba of Dr. Livingstone). From a survey by Mr. Edward C. Hore, Master Mariner, of the London Missionary Society. Scale, 576 m. = in. Size, 28.6 × 35.9 cm.
Pp. iv. 1882. P. 64.

561. East Africa. Sketch map illustrating a journey into the district of Nguru, by Mr. J. T. Last. Scale, 11.5 m. = in. Size, 38.4 × 39.2 cm.
Pp. iv. 1882. P. 192.

562. The lakes of Sigirso near Malindi [Galla country]. From a sketch survey by the Rev. T. Wakefield, 1877. Scale, 1: 129,000 [2.03 m. = in.]. Size, 19 × 10.7 cm.
Mr. Wakefield's route from Ribe to Malindi, 1877. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 6 × 6.6 cm.
Pp. iv. 1882. P. 370.

563. Native routes to the Masai country and to the Victoria Nyanza. From information obtained by the Ven'ble J. P. Farler. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 30 × 26.3 cm.
New native routes collected by the Ven'ble J. P. Farler and the Rev. Thomas Wakefield, and adjusted to the R. Geogr. Society's map of eastern equatorial Africa. Scale, 1: 12,000,000 [189.39 m. = in.]. Size, 8.4 × 9.4 cm.
Pp. iv. 1882. P. 776.

564. Africa. East coast. Map illustrating Mr. O'Neill's journey into the Mavia country, September-October, 1882. Scale, 7.6 m. = in. Size, 35.2 × 19.2 cm.
Pp. v. 1883. P. 440.

565. East Africa. Sketch map illustrating the journeys of Mr. J. T. Last and Dr. E. J. Baxter into the Masai country. Scale, 11.5 m. = in. Size, 33.3 × 21.9 cm.
Pp. v. 1883. P. 568.

9. South Africa.

A. Tropical Region.

566. Outline map of southern Africa, to illustrate the analysis of Captain Owen's voyage. Scale [ca. 380 m. = in.]. Size, 22.2 × 19.7 cm.
J. iii. 1833. Art. i. (Anal.).

567. Sketch of South Africa, to illustrate paper by W. D. Cooley, Esq. Scale [ca. 224 m. = in.]. Size, 21.8 × 16.8 cm. J. iii. 1833. Art. x. (Misc.).

- 568.** Map of Nyassi, or the great lake of southern Africa, with the country between it and the eastern coast, exhibiting also the line of communication between the Quanza, in Angola, and the Zambezi, in the government of Mozambique. By W. Desborough Cooley. Scale [ca. 27 m. = in.]. Size, 37.1 × 21.4 cm. J. xv. 1845. Art. iv.
- 569.** Route of Messrs. Livingston, Oswell, and Murray to Lake Ngami. 1849. Scale, 84 m. = in. Size, 11.7 × 18.6 cm. J. xx. 1851. Arts. ix, x.
- 570.** Africa, between 10° and 30° south latitude. Map to illustrate the routes of Francis Galton, Esq., Messrs. Livingston and Oswell, and W. Henry Gassiot, Esq. 1852. Scale, 188 m. = in. Size, 26 × 18.7 cm. J. xxii. 1852. Arts. xi, xii.
- 571.** Exploration of Africa. Sketch of a route from the river Chobé to Loando, performed by the Rev. Dr. Livingstone, 1853-54. Scale [ca. 146 m. = in.]. Size, 21.2 × 20.3 cm. J. xxiv. 1854. P. 306.
- 572.** Map to illustrate explorations in South Africa from Walvisch bay to Lake Ngami, etc., by C. I. [J.] Andersson, Esq. 1854. Scale, 84 m. = in. Size, 25.3 × 20.1 cm. J. xxv. 1855. P. 79.
- 573.** Exploration of Africa. Sketch of a route from the Barotse valley, on the River Leeambye, to Loando; performed by the Rev. Dr. Livingstone. Scale, 75 m. = in. Size, 29.4 × 19.2 cm. J. xxv. 1855. P. 236.
- 574.** Map to illustrate a visit to Moselekatse, King of the Matebele, by the Rev. R. Moffat. 1856. Scale [ca. 57 m. = in.]. Size, 23.1 × 19.6 cm. J. xxvi. 1856. P. 84.
- 575.** Map of southern central Africa. By James McQueen, Esq. 1856. Scale [ca. 174 m. = in.]. Size, 29.9 × 19.2 cm. J. xxvi. 1856. P. 109.
- 576.** Map to illustrate Dr. Livingstone's route across Africa; constructed from his astronomical observations, bearings, estimated distances, sketches, etc., etc., by J. Arrowsmith. 1857. Scale, 110 m. = in. Size, 41.1 × 19.6 cm. J. xxvii. 1857. P. 349.
- 577.** East Africa expedition. Map of the routes between Zanzibar and the great lakes in eastern Africa, in 1857, 1858, and 1859, by Captains R. F. Burton and J. H. Speke. Constructed from the observations of Captain Speke by A. G. Findlay, F. R. G. S. Scale, 34 m. = in. Size, 60.2 × 37.8 cm. J. xxix. 1859. P. 464.
- 578.** Central Africa; showing the route of Silva Porto from Benguela to Cape Delgado, in 1853-54; also the sources of the Nile, and the countries around them, by James Macqueen, Esq. Scale [ca. 196 m. = in.]. Size, 37.1 × 26.1 cm. J. xxx. 1860. P. 136.
- 579.** Africa. The course of the River Shire, below Lake Nyassa, and the River Zambesi, below Kabrabasa; to illustrate the papers of Dr. David Livingstone. Scale, 52 m. = in. Size, 13.3 × 18.9 cm. J. xxxi. 1861. P. 256.
- 580.** River Zambesi at Bandari rock. Scale [ca. 900 ft. = in.]. Size, ca. 4.5 × 5 cm. J. xxxi. 1861. P. 281.
- 581.** Map of South Africa, to illustrate the paper by James Fox Wilson, Esq., and Dr. Livingstone's theory of ancient lakes. Scale, 263 m. = in. Size, 22 × 19.8 cm. J. xxxv. 1865. P. 107.
- 582.** (South eastern Africa) Lake Nyassa, the River Shire, etc., from the M.S. map by Dr. Kirk. Scale, 54.5 m. = in. Size, 14.4 × 25.9 cm. J. xxxv. 1865. P. 167.
- 583.** Sketch map of Mr. Baines' routes between the Limpopo and Zambesi rivers. Scale, 52 m. = in. Size, 17.9 × 33 cm. J. xli. 1871. P. 100.
- 584.** Map of route from the Tati settlement to Delagoa bay, to illustrate the paper by Captain F. Elton. Scale, 34 m. = in. Size, 34.3 × 29.6 cm. J. xlii. 1872. P. 1.
- 585.** Dr. Livingstone's routes, 1866 to 1872. By A. Keith Johnston. Scale, 148 m. = in. Size, 20.6 × 27.8 cm. O. H. ii. No. 4. 1872. P. [102].
- 586.** Route map of the Gasa country (south eastern Africa), illustrating the journey to Umzila, King of Gasa. Reduced from the original map constructed by Mr. St. Vincent Erskine. Scale, 36 m. = in. Size, 26.6 × 34.9 cm. J. xlv. 1875. P. 45.
- 587.** Map of tropical South Africa, illustrating the progress of geographical discovery. By E. G. Ravenstein, F. R. G. S. Scale, 1: 10,000,000 [157.83 m. = in.]. Size, 41.5 × 29.1 cm. G. M. ii. 1875. P. 1.
- 588.** Sketch map of Lake Nyassa by Mr. E. D. Young, 1876. Scale [ca. 29 m. = in.]. Size, 11 × 37.2 cm. P. xx. 1875-76. P. 451.
- 589.** Map of a portion of South Africa, illustrative of Lieutenant Cameron's route from Lake Tanganyika to the west coast. By E. G. Ravenstein, F. R. G. S. Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 46 × 25.7 cm. G. M. iii. 1876. P. 57.
- 590.** A sketch map of the country round Lake Nyassa. Scale, 38 m. = in. Size, 46.4 × 50.9 cm. G. M. iv. 1877. P. 206.
- 591.** Map of the Bamangwato country, to illustrate Captain Patterson's paper. Scale, 65 m. = in. Size, 29 × 22 cm. Pp. i. 1879. P. 288.
- 592.** Map of South Africa, illustrating the journey of Major Serpa Pinto from Benguela to Natal, 1877-79, by W. J. Turner. Scale, 178 m. = in. Size, 29.3 × 21.8 cm. Pp. i. 1879. P. 544.
- 593.** Map of the central portion of South Africa, illustrating Dr. Holub's journeys, 1873-79; constructed from his original drawings, collated with the routes of other travellers and the most recent material, by W. J. Turner. Scale, 80 m. = in. Size, 22.3 × 37.4 cm. Pp. ii. 1880. P. 400.
- 594.** Sketch map of the Okavango river by Père Duparquet. Scale, 63 m. = in. Size, 16.1 × 10.8 cm. Pp. iii. 1881. P. 44.
- 595.** General map of South Africa, by W. J. Turner, showing the comparative distances from Cape Town with those of European cities from London. Scale, 212 m. = in. Size, 25.7 × 21.9 cm. Pp. iii. 1881. P. 64.
- 596.** Central Africa. Map of the central Zambesi region, constructed from the route-surveys and observations of Livingstone, Baines, Mohr, Pinto, Holub, and other travellers, combined with the sketches of Mr. F. C. Selous, by W. J. Turner. Scale, 60 m. = in. Size, 22.4 × 21.4 cm. Pp. iii. 1881. P. 192.
- 597.** Central Africa. Sketch map of the Chobe river by Dr. Benjamin F. Bradshaw. 1880. Scale, 2 m. = in. Size, 19 × 21.2 cm. Pp. iii. 1881. P. 256.
- 598.** Routes in the Mashuna and Matabele countries, by F. C. Selous. Scale, 1: 3,500,000 [55.24 m. = in.]. Size, 10.8 × 11.8 cm. Pp. iii. 1881. P. 353.
- 599.** Map of the Rovuma river and the region to the south, illustrating the journeys of Mr. Joseph Thomson and the Rev. Chauncy Maples, A.M. Scale, 15 m. = in. Size, 46.2 × 45.1 cm. Pp. iv. 1882. P. 128.
- 600.** General map of the Makua country, from a sketch by H. E. O'Neill, H. M. Consul at Mozambique. Scale, 46 m. = in. Size, 23.4 × 22.1 cm. Pp. iv. 1882. P. 256.
- 601.** Route map illustrating a journey into the

Makua country, by H. E. O'Neill, H. M. Consul at Mozambique. Scale, 23 m. = in. Size, 33.6 × 12.8 cm. Pp. iv. 1882. P. 256.

602. Route from Senna to the gold mines of Manica [Zambesi country]. From a survey by M. Kuss, member of Paiva de Andrada's Zambesi expedition. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 13.8 × 10.7 cm. Pp. iv. 1882. P. 373.

603. Paiva de Andrada's Zambesi expedition. Routes to Maxinga and the Mazoe. From sketches by M. Kuss. 1881. Scale, 1: 1,280,000 [20.2 m. = in.]. Size, 10.7 × 14.1 cm. Pp. iv. 1882. P. 418.

604. Routes through the Yao country, by the Rev. W. P. Johnson, 1880-82. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 21.3 × 21.8 cm. Pp. iv. 1882. P. 520.

605. Map of the Mozambique coast; to illustrate the paper by H. E. O'Neill, H. M. Consul at Mozambique, on the coast, rivers, and ports of Mozambique. Scale, 23 m. = in. Size, 32.1 × 40.5 cm. Pp. iv. 1882. P. 648.

606. Routes between the Umfulé and the Zambesi, by F. C. Selous. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 10.8 × 15.5 cm. Pp. v. 1883. P. 269.

607. Map of the southern part of Portuguese possessions on the west coast of Africa, to illustrate the Earl of Mayo's journey in 1882-1883. Scale, 28 m. = in. Size, 30.3 × 21.8 cm. Pp. v. 1883. P. 504.

608. Africa. Lake Nyassa, surveyed by Mr. James Stewart, C. E. Scale, 19 m. = in. Size, 20.7 × 49.7 cm. Pp. v. 1883. P. 752.

609. Physical map of west coast of Africa, by H. H. Johnston. Scale [ca. 229 m. = in.]. Size, 11 × 21.3 cm. Pp. v. 1883. P. 752.

B. Cape Region.

610. Outline map of southern Africa, to illustrate the analysis of Captain Owen's voyage. Scale [ca. 380 m. = in.]. Size, 22.2 × 19.7 cm. J. iii. 1883. Art. i. (Anal.).

611. Sketch of South Africa, to illustrate paper by W. D. Cooley, Esq. Scale [ca. 224 m. = in.]. Size, 21.8 × 16.8 cm. J. iii. 1883. Art. x. (Misc.).

612. Sketch of the Cape of Good-Hope colony. Scale [ca. 227 m. = in.]. Size, 21.7 × 16.9 cm. J. v. 1835. P. 340.

613. Colony of the Cape of Good Hope. Scale, 65 m. = in. Size, 29.8 × 19.9 cm. J. vi. 1836. P. 174.

614. Map to illustrate Captain Alexander's route in South Africa. 1838. Scale, 37 m. = in. Size, 23.5 × 38.5 cm. [Map of the western portion of Cape Colony, to illustrate Captain Alexander's route.] Scale, 55 m. = in. Size, 6.6 × 14.4 cm. J. viii. 1838. P. 28.

615. Africa, between 10° and 30° south latitude. Map to illustrate the routes of Francis Galton, Esq., Messrs. Livingston and Oswell, and W. Henry Gassiot, Esq. 1852. Scale, 188 m. = in. Size, 26 × 18.7 cm. J. xxii. 1852. Arts. xi, xii.

616. Map to illustrate explorations in South Africa from Walvish bay to Lake Ngami, etc., by C. I. [J.] Andersson, Esq. 1854. Scale, 84 m. = in. Size, 25.3 × 20.1 cm. J. xxv. 1855. P. 79.

617. Map to illustrate a visit to Moselekatse, King of the Matebele, by the Rev. R. Moffat. 1856. Scale [ca. 57 m. = in.]. Size, 23.1 × 19.6 cm. J. xxvi. 1856. P. 84.

618. South Africa. Map to illustrate route from near Colesberg on the east to Steinkopf on the west; also return route along the banks of the Orange river towards the Bechuana country. By Robert Moffat, Esq. 1858. Scale, 40 m. = in. Size, 43.1 × 19.5 cm. J. xxviii. 1858. P. 153.

619. Sketch to accompany a trading trip into the Orange River Free States, and the country of the Transvaal Republic, in 1851-52. By John Sanderson, Esq. Scale, 30 m. = in. Size, 11 × 19.5 cm. J. xxx. 1860. P. 234.

620. Map to accompany a journey from Inham-bane to Zoutpansberg, in 1855-56; to which is added the parts of South Africa adjacent, by James McQueen, Esq., F. R. G. S. Scale [ca. 54 m. = in.]. Size, 22.4 × 19.4 cm. J. xxxii. 1862. P. 63.

621. South Africa. Map of Zulu, Amatonga, Natal, and Kafir Land, from the sketches of Messrs. Sanderson, Paxton, Rider, and Newling, to illustrate papers by John Sanderson, Esq. 1861. Scale, 62 m. = in. Size, 19.2 × 18.5 cm. J. xxxii. 1862. P. 335.

622. Map of South Africa, to illustrate the paper by James Fox Wilson, Esq., and Dr. Livingstone's theory of ancient lakes. Scale, 263 m. = in. Size, 22 × 19.8 cm. J. xxxv. 1855. P. 107.

623. South-west Africa. Map of the principal part of Damara Land; based on prismatic compass triangulation checked by observed latitudes. By C. J. Andersson, Esq., Cape Town, 1866. Scale [ca. 28 m. = in.]. Size, 31.1 × 36.5 cm. J. xxxvi. 1866. P. 247.

624. Map of the colony of Natal, to accompany the paper by Dr. R. J. Mann. Scale, 27 m. = in. Size, 19.8 × 25.1 cm. J. xxxvii. 1867. P. 48.

625. Sketch map illustrating the discovery of the mouth of the Bembe, Limpopo, or Ouri river (South Africa). By St. Vincent W. Erskine. Scale, 74 m. = in. Size, 16.2 × 19.1 cm. J. xxxix. 1869. P. 233.

626. Map of route from the Tati settlement to Delagoa bay, to illustrate the paper by Captain F. Elton. Scale, 34 m. = in. Size, 34.3 × 29.6 cm. J. xlii. 1872. P. 1.

627. Sketch map of the country between Delagoa bay and the South African Republic [Transvaal]. Compiled by E. G. Ravenstein. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 21.3 × 31.5 cm. O. H. ii. No. 11. 1873. P. 347.

628. Route map of the Gasa country (southeastern Africa), illustrating the journey to Umzila, King of Gasa. Reduced from the original map constructed by Mr. St. Vincent Erskine. Scale, 36 m. = in. Size, 26.6 × 34.9 cm. J. xlv. 1875. P. 45.

629. Map of the Transvaal and the surrounding territories, by F. Jeppe, F. R. G. S. Scale, 1: 1,850,000 [29.20 m. = in.]. Size, 58.1 × 56.7 cm. a. Continuation of Mauch's route to the ruins of Zimbabwe. Discovered 5th September, 1871. Scale [29.20 m. = in.]. Size, 5.2 × 6 cm.

Δ. Plan of Lourenço Marques (Del. bay). Scale, 3,280 ft. = in. Size, 5.2 × 6.2 cm.

c. Plan of Pretoria. Scale, wanting. Size, 5 × 7 cm. J. xlvii. 1877. P. 217.

630. A map of the South African Republics. By E. G. Ravenstein. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 44.9 × 50.1 cm. G. M. iv. 1877. P. 27.

631. Route map of A. C. Baillie's journey from Barkly to Gubuluwayo. Scale [ca. 31 m. = in.]. Size, 42.1 × 18 cm. J. xlviii. 1878. P. 287.

632. Map of the Bamangwato country, to illustrate Captain Patterson's paper. Scale, 65 m. = in. Size, 29 × 22 cm. Pp. i. 1879. P. 288.

633. Map of South Africa, illustrating the journey of Major Serpa Pinto from Benguela to Natal,

1877-79, by W. J. Turner. Scale, 178 m. = in. Size, 29.3 × 21.8 cm. Pp. i. 1879. P. 544.

634. Map of the central portion of South Africa, illustrating Dr. Holub's journeys, 1873-79; constructed from his original drawings, collated with the routes of other travellers and the most recent material, by W. J. Turner. Scale, 80 m. = in. Size, 22.3 × 37.4 cm. Pp. ii. 1880. P. 400.

635. General map of South Africa, by W. J. Turner, showing the comparative distances from Cape Town with those of European cities from London. Scale, 212 m. = in. Size, 25.7 × 21.9 cm. Pp. iii. 1881. P. 64.

636. The delta and lower course of the Sabi river [Umzila]. From the survey of the late Captain T. L. Phipson-Wybrants. Scale, 9.5 m. = in. Size, 17.7 × 10.7 cm. Pp. v. 1883. P. 272.

10. Islands.

637. Socotra, from the late surveys. 1835. Scale, 7.4 m. = in. Size, 32.3 × 17.6 cm. J. v. 1835. P. 228.

638. Sketch of Madagascar, to illustrate Colonel Llyod's [Lloyd's] paper. Scale, 128 m. = in. Size, 11.4 × 20.2 cm. J. xx. 1851. Art. iv.

639. The central provinces of Madagascar, by Joseph Mullens, D.D. Scale, 12 m. = in. Size, 40.3 × 78.7 cm.

Madagascar [showing the position of the central provinces]. Scale [ca. 41 m. = in.]. Size, 8.5 × 13.3 cm. J. xlv. 1875. P. 129.

640. Map of Sokotra according to S. B. Haines and I. R. Wellsted. By E. G. Ravenstein. Scale, 1: 300,000 [4.73 m. = in.]. Size, 48.3 × 21.6 cm.

[Map of that portion of the Gulf of Aden between Sokotra and the Somali coast.] Scale, 1: 3,000,000 [4.73 m. = in.]. Size, 10.4 × 7.8 cm. G. M. iii. 1876. P. 120.

641. South east Madagascar and the Ibara country, by Joseph Mullens, D.D., from the surveys of Messrs. Sibree, Shaw, and Richardson. Scale, 12 m. = in. Size, 49.3 × 32.9 cm. J. xlvii. 1877. P. 47.

642. West central Madagascar, by Joseph Mullens, D.D. From Messrs. Grandidier, Sewell, etc. Scale, ca. 12 m. = in. Size, 38.3 × 30.4 cm. J. xlvii. 1877. P. 63.

643. Part of Madagascar; from the latest surveys, by Joseph Mullens, D.D. Scale, ca. 12 m. = in. Size, 39 × 47.2 cm. J. xlvii. 1877. P. 67.

644. [Map of Madagascar for comparison with the language map of Farther India and the Indian Archipelago. E. L. Brandreth and Robert N. Cust. 1878. No. 2.] Scale [ca. 330 m. = in.]. Size, 6.4 × 7.9 cm. G. M. v. 1878. P. 25.

645. Physical map of Madagascar by the Rev. James Sibree, reduced from Dr. Mullens' map. Scale, 140 m. = in. Size, 12.3 × 22.1 cm. Pp. i. 1879. P. 688.

646. Map of south-eastern provinces of Madagascar, comprising part of the Tanala, Betsileo, and Bara country. From a sketch survey by the Rev. W. Deans Cowan. Scale, 7.7 m. = in. Size, 76.7 × 56 cm. Pp. iv. 1882. P. 584.

V. AUSTRALASIA.

1. Australia, General.

647. Map of the south east portion of Australia, shewing the progress of discovery in the interior of New South Wales to 1832. Scale, 70 m. = in. Size, 41.1 × 33.8 cm. J. ii. [1832.] Art. [viii].

648. Australia [showing the position of New South Wales and Victoria]. Scale [500 m. = in.]. Size, 12.7 × 10.2 cm. J. vii. 1837. P. 248.

649. Australia, according to the proposed divisions. Scale, 312 m. = in. Size, 21.3 × 18.3 cm.

Spain and Portugal . . . to serve as a measure of magnitude. Scale, 312 m. = in. Size, ca. 6 × 4.5 cm. J. viii. 1838. P. 168.

650. Map shewing the range of the southern dialects of Australia. Scale, 320 m. = in. Size, 20.9 × 19 cm. J. xv. 1845. Art. iv. (Misc.).

651. Sketch-map to illustrate Dr. Leichardt's route from Moreton bay to Port Essington. 1846. Scale, 320 m. = in. Size, 21 × 19 cm. J. xvi. 1846. Art. x.

652. Map of the country explored by the Central Australian Expedition under the command of Captain Charles Sturt during the years 1844, '45, and '46. Scale, 50 m. = in. Size, 20.6 × 40.8 cm. J. xvii. 1847. Art. ii.

653. Australia. Map to illustrate diaries of exploration of central Australia by John McDouall Stuart, Esq. 1860 and 1861. Scale, 80 m. = in. Size, 20.1 × 36.5 cm. J. xxxi. 1861. P. 83.

654. Australia. Map to accompany the diary of Messrs. Burke and Wills, across Australia to the Gulf of Carpentaria; also Mr. Howitt's journal to Cooper creek; constructed chiefly from the observations and field-book of W. I. [J.] Wills, Esq. 1861. Scale, 80 m. = in. Size, 13.6 × 36.4 cm. J. xxxii. 1862. P. 430.

655. Map to illustrate the winds of north-east Australia, to accompany the paper by Dr. A. Rattray, M.D., R.N. Scale [ca. 143 m. = in.]. Size, 25.3 × 19.5 cm. J. xxxviii. 1868. P. 370.

656. Map illustrating the climate and physical geography of north-east Australia, to accompany the paper by Dr. A. Rattray, M.D., R.N. Scale [ca. 835 m. = in.]. Size, 34.4 × 19.8 cm. J. xxxviii. 1868. P. 381.

657. Map of the overland telegraph line between Port Augusta and Port Darwin, constructed by the South Australian government. Drawn for "Ocean highways" by F. le B. Bedwell, R.N., F.R.G.S. Scale, 125 m. = in. Size, 18.9 × 30.1 cm. O. H. ii. No. 10. 1873. P. 310.

2. West Australia.

658. Sketch of the Swan river colony, including King George's sound. Scale [ca. 18.94 m. = in.]. Size, 33 × 37.6 cm.

King George's sound. Scale, 4.6 m. = in. Size, 13.3 × 11.3 cm.

Cockburn sound. Scale, 5.75 m. = in. Size, 12.8 × 12.6 cm.

Fort Leschenault. Scale, 2.12 m. = in. Size, 6 × 6.1 cm. J. [i.] 1830-31. Art. i.

659. Western Australia, from the latest documents received in the Colonial Office, 1832. Scale [ca. 23 m. = in.]. Size, 33.1 × 40.9 cm. J. ii. [1832.] Art. ix. (Misc.).

660. Australia. Northwest coast. 1838. Scale [82.2 m. = in.]. Size, 11.7 × 18.8 cm. J. viii. 1838. P. 466.

661. Part of western Australia, to illustrate the journals of Messrs. Gregory and Lieutenant Helpman, R.N. Scale, 38 m. = in. Size, 20.1 × 17.7 cm. J. xviii. 1848. Arts. iv., v.

662. Western Australia. Map to illustrate the route of the expedition under Surveyor-General Roe, from Perth to Russell Range, 1848 and 1849. Scale, 48 m. = in. Size, 27.8 × 19.5 cm. J. xxii. 1852. Art. i.

663. Sketch showing the route of the settlers' expedition under Mr. A. C. Gregory from Perth towards Gascoyne river, 1848. Also Governor Fitz-Gerald's route from Champion bay to Murchison river, 1848 and 1849. Scale, 48 m. = in. Size, 9.3 X 20 cm. J. xxii. 1852. Arts. ii., iii.

664. Map to illustrate the report of an expedition into the interior of western Australia in 1854. By Robert Austin, Assistant Surveyor. Scale, 74 m. = in. Size, 16 X 19.8 cm. J. xxvi. 1856. P. 235.

665. Map of north western Australia; to illustrate journal of exploring expedition commanded by F. T. Gregory, Esq. 1861. Scale, 41 m. = in. Size, 36.5 X 19.1 cm. J. xxxii. 1862. P. 372.

666. Map shewing the overland tracks from Perth to Eucla and Adelaide by John Forrest, government surveyor, 1870. Scale, 45 m. = in. Size, 82.6 X 17.2 cm. J. xli. 1871. P. 361.

667. Map showing the explorations to the eastward and southward of Hampton plains (western Australia) by Alexander Forrest, Assistant Surveyor. 1871. Scale, 45 m. = in. Size, 33.3 X 20.2 cm. J. xlii. 1872. P. 388.

668. Map showing the route of the West Australian exploring expedition through the centre of Australia, from Champion bay on the west coast to the overland telegraph line between Adelaide and Port Darwin. Commanded by John Forrest, F. R. G. S. 1874. Scale, 37 m. = in. Size, 76.4 X 18.7 cm. J. xlv. 1875. P. 249.

669. Map of the explorations from Beltana station (South Australia) to the city of Perth (western Australia), by Ernest Giles. 1875. Scale, 55 m. = in. Size, 69.6 X 17.5 cm. J. xlvii. 1876. P. 329.

3. North Australia.

670. Melville and Bathurst islands with Cobourg peninsula. North Australia. Scale, 10 m. = in. Size, 44.3 X 17.8 cm. J. iv. 1834. Art. vi.

671. North Australia. Map to complete diaries of exploration across Australia (from south to north) by John McDouall Stuart, Esq. 1861 and 1862. Scale, 65 m. = in. Size, 11.5 X 19.7 cm. J. xxxiii. 1863. P. 276.

672. North Australian exploring expedition. Part of North Australia, to illustrate journal of the route of Augustus C. Gregory, Esq. 1858. Scale, 58 m. = in. Size, 61.7 X 20.1 cm. J. xxviii. 1858. P. 1.

673. Portion of the Flinders river [North Australia], to illustrate the observations of Commander Norman, R. N. Scale, 4.8 m. = in. Size, 11 X 17.4 cm. J. xxxiii. 1863. P. 5.

4. South Australia.

674. Country near the mouth of the River Murray, Australia. Scale [ca. 19 m. = in.]. Size, 19.9 X 12.1 cm. J. iii. 1833. Art. v. (Anal.).

675. Sketch of the country east of Flinders range, South Australia, to illustrate a paper by Captain Frome, R. E., Surveyor-General of the Colony. 1843. Scale [ca. 35 m. = in.]. Size, 11 X 19.7 cm. J. xiv. 1844. Art. xv.

676. Southeast extremity of South Australia, to illustrate Governor G. Grey's expedition. 1844. Scale [ca. 29 m. = in.]. Size, 29.4 X 19.5 cm.

a. Mt. Gambier, — plan. Scale, 2,625 yds. = in. Size, 7.2 X 9 cm.

b. Mt. Schanck, — plan. Scale, 2,625 yds. = in. Size, 4.6 X 6.6 cm.

J. xv. 1845. Art. iii.

677. Sketch to illustrate extracts of explorations made by Surveyor-General Freeling, Mr. S. Hack,

and others, in South Australia, 1857. Scale [ca. 48 m. = in.]. Size, 22.8 X 19.5 cm.

P. ii. 1857-58. [P. 186.]

678. Expeditions in search of Burke and Wills. Map of eastern Australia; on which are delineated the routes of Messrs. Burke and Wills, McKinlay, Landsborough, and Walker, etc., to accompany the Journal of the Royal Geographical Society for 1863. Scale, 80 m. = in. Size, 30.6 X 45.4 cm. J. xxxiii. 1863. P. 13.

679. Map shewing the overland tracks from Perth to Eucla and Adelaide by John Forrest, government surveyor, 1870. Scale, 45 m. = in. Size, 82.6 X 17.2 cm. J. xli. 1871. P. 361.

680. Map showing the route of the West Australian exploring expedition through the centre of Australia, from Champion bay on the west coast to the overland telegraph line between Adelaide and Port Darwin. Commanded by John Forrest, F. R. G. S. 1874. Scale, 37 m. = in. Size, 76.4 X 18.7 cm. J. xlv. 1875. P. 249.

681. Map of the explorations from Beltana station (South Australia) to the city of Perth (western Australia), by Ernest Giles. 1875. Scale, 55 m. = in. Size, 69.6 X 17.5 cm. J. xlvii. 1876. P. 329.

5. Queensland.

682. Australia. Map to illustrate the journal of a route along the rivers Victoria and Warrego, by E. B. Kennedy, Esq. 1847. Scale [ca. 60 m. = in.]. Size, 22.4 X 18 cm. J. xxii. 1852. Art. xv. (Append.).

683. Expeditions in search of Burke and Wills. Map of eastern Australia; on which are delineated the routes of Messrs. Burke and Wills, McKinlay, Landsborough, and Walker, etc., to accompany the Journal of the Royal Geographical Society for 1863. Scale, 80 m. = in. Size, 30.6 X 45.4 cm. J. xxxiii. 1863. P. 13.

684. Map illustrating the overland expedition from Port Denison to Cape York (Australia) under the command of F. and A. Jardine, Esqrs., to accompany Mr. Richardson's paper. Scale, 40 m. = in. Size, 33.4 X 36.9 cm. J. xxxvi. 1866. P. 19.

6. New South Wales.

685. Map of the south east portion of Australia, shewing the progress of discovery in the interior of New South Wales, by Major Mitchell, Surveyor-General of the Colony. Scale, 70 m. = in. Size, 41.9 X 33.3 cm.

Australia [showing the position of New South Wales]. Scale [500 m. = in.]. Size, 12.7 X 10.2 cm.

J. vii. 1837. P. 284.

686. Sketch of New England, Beards plains, the Clarence and Richmond rivers, New South Wales, to illustrate the route of Captain H. G. Hamilton, R. N. Scale, 27 m. = in. Size, 15.4 X 19.4 cm. J. xiii. 1843. Pt. 2. Art. iii.

687. Sketch [of the northeastern portion of New South Wales] to illustrate Mr. Russel's paper. 1845. Scale, 39 m. = in. Size, 15.6 X 19.1 cm. J. xv. 1845. Art. ix.

688. Expeditions in search of Burke and Wills. Map of eastern Australia; on which are delineated the routes of Messrs. Burke and Wills, McKinlay, Landsborough, and Walker, etc., to accompany the Journal of the Royal Geographical Society for 1863. Scale, 80 m. = in. Size, 30.6 X 45.4 cm. J. xxxiii. 1863. P. 13.

7. Victoria.

689. Map of the south east portion of Australia, shewing the progress of discovery in the interior of New South Wales, by Major Mitchell, Surveyor-General of the Colony. Scale, 70 m. = in. Size, 41.9 × 33.3 cm.

Australia [showing the position of New South Wales and Victoria]. Scale [500 m. = in.]. Size, 12.7 × 10.2 cm.
J. vii. 1837. P. 248.

8. New Guinea.

690. [Maps of New Guinea, showing recent discoveries.]

- a. Running survey made in April, 1873, by Captain J. Moresby and Lieutenant T. L. Mourilyan, of H. M. S. Basilisk. Scale, 13.2 m. = in. Size, 15.5 × 14.3 cm.
b. Galewo strait. Surveyed by Captain G. de Lenna of G. E. Cerutti's expedition, February to March, 1870. (From a map by Guido Cora.) Scale, 13.9 m. = in. Size, 5.8 × 10.2 cm.
c. [Western end of New Guinea, shewing Dr. Meyer's route in 1873, from an original sketch.] Scale [ca. 114 m. = in.]. Size, 9.6 × 10.2 cm.

O. Hh. i. 1873. P. 360.

691. Chart of the south-east coast of New Guinea, to accompany the paper by Captain J. Moresby, R. N. Scale [ca. 9 m. = in.]. Size, 25.5 × 19.6 cm.

Sketch map of part of the south coast of New Guinea, by W. W. Gill, B.A. Scale [ca. 33 m. = in.]. Size, 5.5 × 3.9 cm.

J. xlv. 1874. P. 1.

692. Map of eastern New Guinea, to accompany the paper by Captain J. Moresby, R. N. Scale, 37 m. = in. Size, 39.8 × 40.7 cm.

New Guinea. Scale 195 m. = in. Size, 19.4 × 10.6 cm.

J. xlv. 1875. P. 153.

693. Map of [the northwestern] part of New Guinea, illustrating O. Beccari's explorations in 1875. Principally from maps compiled by Guido Cora. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 27.9 × 16.4 cm.

[Enlarged map of the northern part of Galewo straits.] From a sketch by O. Beccari. Scale [ca. 14 m. = in.]. Size, 6 × 3.5 cm.

G. M. iii. 1876. P. 40.

694. New Guinea. Map of the Fly river. Drawn from the original charts made by Signor L. M. D'Albertis by W. J. Turner. Scale, 23 m. = in. Size, 31.6 × 31.6 cm.

[Map of New Guinea and neighbouring regions.] Scale, 190 m. = in. Size, 19.3 × 13.3 cm.

Pp. i. 1879. P. 80.

9. New Zealand.

695. New Zealand. Scale, 156 m. = in. Size, 11.5 × 20.3 cm. J. ii. [1832]. Art. viii. [ix.].

N. B. The article to which the map belongs is incorrectly numbered. It should be no. ix.

696. Warekauri and Chatham islands, to illustrate Dr. Dieffenbach's paper. Scale, 7.5 m. = in. Size, 21.2 × 19 cm. J. xi. 1841. P. 195.

697. The Middle island (New Zealand), to illustrate papers by Captain Stokes, R. N., and Captain Mitchell, 84th Regiment. 1851. Scale, 62 m. = in. Size, 18.3 × 20.5 cm. J. xxi. 1851. Art. iv.

698. The Middle island (New Zealand), to illustrate Mr. Brunner's paper. 1851. Scale, 63 m. = in. Size, 18.4 × 20.5 cm.

J. xxi. 1851. Art. xxii. (Append.)

699. New Zealand. South districts of the province of Otago; to illustrate the journal of J. Turnbull Thomson, Esq. 1857. Scale, 17.5 m. = in. Size, 15.8 × 19.3 cm. J. xxviii. 1858. P. 298.

700. New Zealand. Routes near west coast of Nelson district; by John Rochfort, Esq., in 1859. Scale, 24.5 m. = in. Size, 11.7 × 18.9 cm.

J. xxxii. 1862. P. 294.

701. Map of the provinces of Canterbury and Otago (New Zealand), to illustrate the papers of Mr. James M'Kerrow, Dr. J. Haast, and Dr. Hector. Scale, 28 m. = in. Size, 35.3 × 29.3 cm.

The islands of New Zealand. Scale [ca. 206 m. = in.]. Size, 9.3 × 12 cm.

J. xxxiv. 1864. P. 56.

702. Map of the province of Canterbury (New Zealand), showing the five routes between the east and west coasts, with sections of the routes, to accompany the paper by Dr. J. Haast. Scale, 24 m. = in. Size, 29.8 × 20.1 cm.

J. xxxvii. 1867. P. 328.

703. Map of the southern Alps in the province of Canterbury (New Zealand). Reduced from the large map by Julius Haast, Ph. D., F. R. S. Scale, 16 m. = in. Size, 44.1 × 25.5 cm.

J. xl. 1870. P. 433.

VI. NORTH AMERICA.

i. Alaska.

704. Map of the arctic coast of America from Return reef to Point Barrow, explored by Messrs. P. W. Dease and T. Simpson under the direction of the Hon. Hudson's Bay Company. 1837. Scale [23.7 m. = in.]. Size, 19.8 × 11.5 cm.

J. viii. 1838. P. 224.

705. Map of the Yukon, or Kwich-Pak, river. (To illustrate Mr. Whymper's paper.) Scale [ca. 36 m. = in.]. Size, 45.7 × 28.9 cm.

[Sketch map of the northwestern portion of North America and the northeastern portion of Asia, showing the position of Alaska.] Scale [ca. 378 m. = in.]. Size, 26.1 × 17.4 cm.

J. xxxviii. 1868. P. 219.

706. Northern Alaska. From a survey by E. W. Nelson, U. S. Signal Service, shewing track of a sledge expedition made during 1878-79. Scale, 26.5 m. = in. Size, 27.5 × 29.7 cm.

Pp. iv. 1882. P. 712.

a. British America.

A. Northern Region.

707. Sketch of North America shewing the proposed route of Captain Back. Scale [ca. 315 m. = in.]. Size, 30.6 × 24.3 cm. J. iii. 1833. Art. iii.

708. Sketch shewing the route of the recent arctic land expedition. 1835. Scale [ca. 210 m. = in.]. Size, 22.4 × 16.9 cm. J. v. 1835. P. 410.

709. Map of the discoveries and route of the arctic land expedition, in the years 1833 and 1834. Surveyed and drawn by Captain Back, R. N. Scale, 38.9 m. = in. Size, 48.7 × 27.1 cm.

[Sketch-map of the northern part of North America and adjoining region, to illustrate the route of the arctic land expedition of 1833-34.] Scale [ca. 210 m. = in.]. Size, 24.3 × 15.5 cm.

J. vi. 1836. P. 11.

710. Hudson's strait, shewing the track of H. M. S. Terror, in 1836-37. Scale [ca. 49 m. = in.]. Size, 21.5 × 12.8 cm.

J. vii. 1837. P. 466.

711. Map of the arctic coast of America from Return reef to Point Barrow, explored by Messrs. P. W. Dease and T. Simpson under the direction of the Hon. Hudson's Bay Company. 1837. Scale [23.7 m. = in.]. Size, 19.8 × 11.5 cm.

J. viii. 1838. P. 224.

712. Discoveries of Messrs. Dease and Simpson in 1838-39. Chart of the coast from Coronation gulf to Boat river, constructed from the narrative [of Messrs. Dease and Simpson]. Scale [31.1 m. = in.]. Size, 11.4 × 6.4 cm.

J. x. 1841. P. 274.

713. Frobisher strait, from the journals of his voyage. By Commander A. B. Becher, R. N.—Northumberland inlet. By Captain Warham, of the whaler Lord Gambier, in 1841. Scale [10.8 m. = in.]. Size, 22.4 × 19 cm.

J. xii. 1842. Pt. i. [Art. i., P. i.]

714. Sketch map of Peel river by Mr. A. K. Isbester [Isbister]. 1845. Scale [ca. 30 m. = in.]. Size, 20.3 × 19.7 cm.

J. xv. 1845. Art. xi.

715. Chart of the Arctic coast [of North America], examined by Dr. J. Rae in spring and summer, 1851. Scale [ca. 34 m. = in.]. Size, 35.9 × 19.3 cm.

J. xxii. 1852. Arts. iv., v.

716. Sketch of the shores of arctic America, to illustrate the discovery of the north west passage, by Captain R. McClure, of H. M. S. Investigator, 1850-51. Equatorial scale [ca. 780 m. = in.]. Size, 29.9 × 16.8 cm.

J. xxiv. 1854. P. 244.

717. Sketch of the shores of arctic America, to illustrate the search for Sir John Franklin by Captain Collinson of H. M. S. Enterprise, 1850-54. Scale [ca. 102 m. = in.]. Size, 29.2 × 17.3 cm.

J. xxv. 1855. P. 206.

718. Arctic America, showing the coasts explored in 1859, by Captain Sir F. L. McClintock and his officers, in search of the lost ships of Sir John Franklin in 1845. Compiled and drawn by John Arrow-smith. Scale, 96 m. = in. Size, 34.5 × 20.6 cm.

J. xxxi. 1861. P. 1.

719. [Sketch map of the northwestern portion of North America and the northeastern portion of Asia, showing the position of Alaska.] Scale [ca. 378 m. = in.]. Size, 26.1 × 17.4 cm.

J. xxxviii. 1868. P. 219.

B. Canada.

720. Map of British North America; to illustrate a paper on the means of communication with the Pacific ocean, by Captain M. H. Syngé, R. E. Scale, 240 m. = in. Size, 35 × 17.4 cm.

J. xxii. 1852. Art. xiii.

721. Sketch to illustrate report of a canoe expedition along the east coast of Vancouver island; by James Douglas, Esq., Governor. 1854. Scale, 15 m. = in. Size, 18.4 × 11.3 cm.

J. xxiv. 1854. P. 248.

722. Map of Vancouver island, with the adjacent coast; to illustrate a description of the island by Lieutenant-Colonel W. C. Grant. 1856. Scale, 48 m. = in. Size, 19.5 × 19 cm.

J. xxvii. 1857. P. 268.

723. British North America. Map of the country between Lake Superior and Vancouver island; to illustrate the papers of the exploring expedition under the command of Captain John Palliser, 1857 to 1860. Scale [ca. 74 m. = in.]. Size, 62 × 18.7 cm.

J. xxx. 1860. P. 268.

724. Part of British Columbia, to illustrate the papers of Mr. Justice Begbie, Commander Mayne, R. N., Lieutenant Palmer, R. E., and Mr. Downie. 1861. Scale, 62 m. = in. Size, 30.6 × 20.5 cm.

J. xxxi. 1861. P. 213.

725. Vancouver island. Sketch of the country between Albernie canal and Nanaimo; showing the line of road proposed by Commander Mayne, R. N. 1861. Scale, 5.76 m. = in. Size, 19.3 × 10.8 cm.

J. xxxii. 1862. P. 529.

726. Map of Vancouver island, to illustrate the paper of Dr. C. Forbes, R. N. Scale, 24 m. = in. Size, 37.1 × 26.1 cm.

J. xxxiv. 1864. P. 154.

727. Outline map of [the southern] part of British Columbia by Lieutenant H. S. Palmer, R. E. From the general map prepared by the royal engineers under Colonel Moody, R. E., at the Office of Lands and Works, New Westminster, February, 1863. Scale, 50 m. = in. Size, 24.1 × 19.4 cm.

J. xxxiv. 1864. P. 171.

728. (British Columbia.) Reconnaissance sketch of part of Cariboo, by Lieutenant H. S. Palmer, R. E. Scale, 7.4 m. = in. Size, 24.4 × 19.2 cm.

J. xxxiv. 1864. P. 171.

729. Sketch map showing proposed communication between Canada and British Columbia, to accompany the paper by Mr. A. Waddington. Scale, 290 m. = in. Size, 26.5 × 10.6 cm.

J. xxxviii. 1868. P. 118.

730. Map of British Columbia. Reduced from the original map by Mr. Alfred Waddington. Scale, 88 m. = in. Size, 26.6 × 19.6 cm.

J. xxxviii. 1868. P. 118.

731. Map of Vancouver island and part of British Columbia, to accompany the paper by R. Brown, Esq. Scale, 26 m. = in. Size, 26.3 × 19.1 cm.

J. xxxix. 1869. P. 121.

732. Sketch map of the Archipelago of San Juan [showing the channels between Vancouver island and the mainland]. Scale, 16 m. = in. Size, 9.3 × 11.8 cm.

O. H. ii. No. 8. 1872. P. 237.

733. Dominion boundary from the L[ake] of the Woods to long. 107° west, to illustrate reports by Captain Anderson, R. E. Scale, 1 : 750,000 [11.84 m. = in.]. Size, 40.7 × 23.6 cm.

G. M. i. 1874. P. 284.

734. Map of the North West Territory, illustrating the British and United States boundary line, surveyed and marked out by the joint commission 1872-74. To accompany the paper by Captain Anderson, R. E. Scale, 72 m. = in. Size, 46 × 18.9 cm.

J. xli. 1876. P. 229.

735. Map of Hudson bay and part of the Dominion of Canada, to accompany the paper by Robert Bell, M.D., F. G. S., Assistant Director of the Geological Survey of Canada. Compiled from the latest surveys. Scale, 19 m. = in. Size, 44.2 × 43.3 cm.

Diagram showing the route between Fort York, Hudson bay, and Liverpool. Scale [ca. 68 m. = in.]. Size, 30.2 × 9.3 cm.

Pp. iii. 1881. P. 640.

736. British North America. North-West Territory, District of Athabasca, from surveys and information collected by the Rev. Emile F. S. Petitot. Scale, ca. 28 m. = in. Size, 53.2 × 38.1 cm.

Pp. v. 1883. P. 688.

C. Labrador and Newfoundland.

737. Map of the River Moisie and adjoining country [Labrador], illustrating the paper by Professor H. Y. Hind. Scale, 17 m. = in. Size, 7.8 × 19 cm.

J. xxxiv. 1864. P. 82.

738. Map of Labrador, showing the canoe route from Seven islands to Hamilton inlet. Scale, 200 m. = in. Size, 17 × 19 cm.

J. xxxiv. 1864. P. 82.

739. Map of Newfoundland, to accompany the paper by the Rev. J. Moreton. Scale, 41 m. = in. Size, 23.3 × 24.6 cm.

J. xxxiv. 1864. P. 263.

740. Chart of the north-east coast of Labrador, to accompany the paper by Commander W. Chimmo. Scale [ca. 21 m. = in.]. Size, 31 × 36.4 cm.

J. xxxviii. 1868. P. 258.

741. Map of Newfoundland, to accompany the paper by Alexander Murray, Esq. Scale, 39 m. = in. Size, 26.8 × 26.9 cm. J. xlviii. 1877. P. 267.

742. Map of part of the island of Newfoundland [from Green bay to Bonne bay], to illustrate the paper by Staff-Commander G. Robinson, R. N. Scale, 4 m. = in. Size, 55.7 × 19 cm.

J. xlvii. 1877. P. 279.

3. United States.

743. Sources of the Mississippi. 1834. Scale [ca. 7 m. = in.]. Size, 20.3 × 19.1 cm.

J. iv. 1834. Art. iv. (Anal.).

744. Upper California, to illustrate the paper by Dr. Coulter. Scale [ca. 7 m. = in.]. Size, 11.1 × 25.4 cm. J. v. 1835. P. 70.

745. Map of the south-western portion of the United States, and of Sonora and Chihuahua, to illustrate the paper by Dr. W. A. Bell. Compiled by E. G. Ravenstein, F. R. G. S. & C. Scale, 95 m. = in. Size, 36.8 × 32.3 cm.

J. xxxix. 1869. P. 95.

746. Sketch map of the Archipelago of San Juan [showing the channels between Vancouver island and the mainland]. Scale, 16 m. = in. Size, 9.3 × 11.8 cm. O. H. ii. No. 8. 1872. P. 237.

747. Map of the Pacific Railways of the south. Scale, 188 m. = in. Size, 25.4 × 14.2 cm.

O. H. i. 1873. P. 276.

748. Map of the North West Territory, illustrating the British and United States boundary line, surveyed and marked out by the joint commission, 1872-74. To accompany the paper by Captain Anderson, R. E. Scale, 72 m. = in. Size, 46 × 18.9 cm.

J. xli. 1876. P. 229.

4. Mexico.

749. Part of the River Tabasco and its tributaries, to illustrate the paper of Mr. P. Masters. Scale, 12.4 m. = in. Size, 26 × 19.5 cm.

J. xv. 1845. Art. v.

750. Map to illustrate a journey to the north-western provinces of Mexico; by Ch. Sevin, Esq. 1856. Scale, 57 m. = in. Size, 22.4 × 19.8 cm.

J. xxx. 1860. P. 1.

751. Map of the southwestern portion of the United States, and of Sonora and Chihuahua, to illustrate the paper by Dr. W. A. Bell. Compiled by E. G. Ravenstein, F. R. G. S. & C. Scale, 95 m. = in. Size, 36.8 × 32.3 cm. J. xxxix. 1869. P. 95.

752. Map of a portion of the railway from Vera Cruz to Mexico. Scale, 1: 75,000 [1.18 m. = in.]. Size, 24.2 × 15.8 cm.

The railway from Vera Cruz to Mexico. Scale, 72 m. = in. Size, 12.2 × 5 cm.

O. H. i. 1873. P. 45.

5. Central America.

753. Sketch of the course of the Usumasinta, Central America, to illustrate Colonel Galindo's paper. Scale [ca. 87 m. = in.]. Size, 11.6 × 19.3 cm. J. iii. 1833. Art. ii.

754. Sketch of the State of Costarrica in Central America, by Colonel Don Juan Galindo. 1836. Scale, 37 m. = in. Size, 25.5 × 19.4 cm.

J. vi. 1836. P. 136.

755. Map of Central America, to illustrate the papers of Captain Bird Allen, R. N., Alonso de Es-

cober, and Chevalier Emanuel Friedrichsthal. Scale, 65 m. = in. Size, 37.2 × 41.6 cm.

J. xi. 1841. P. 76.

756. Survey for a canal by the Sopo to Port Salinas, in Costa Rica, to illustrate Mr. Oersted's paper. 1851. Scale [ca. 6 m. = in.]. Size, 18.8 × 11.2 cm. J. xxi. 1851. Art. ix.

757. Map of the isthmus of Central America, to illustrate the paper by Captain Robert Fitz Roy, R. N. 1851. Scale, 110 m. = in. Size, 29.2 × 20 cm. J. xx. 1851. Art. xiii.

758. (Isthmus of Honduras.) Sketch showing the position of Lake Yojoa, or Taulebe; also the proposed railway between the Bay of Honduras and the Bay of Fonseca, to illustrate a paper by E. G. Squier, Esq. 1859. Scale [ca. 31.4 m. = in.]. Size, 11.2 × 19.5 cm. J. xxx. 1860. P. 58.

759. Map of the Mosquito territory, from surveys and sketches made during several years residence in the country, by Charles N. Bell, Esq. 1856. Scale, 23 m. = in. Size, 24.9 × 41.4 cm.

J. xxxii. 1862. P. 242.

760. Map of Guatemala, to illustrate Mr. A. P. Maudslay's paper. Scale, 23 m. = in. Size, 34.9 × 33.2 cm. Pp. v. 1883. P. 248.

761. [Plan of ruins, etc., to illustrate Mr. Maudslay's paper on Guatemala.]

a. Rough plan of the ruins near Quirigua. Scale, 500 ft. = in. Size, 5.7 × 12.3 cm.

b. Plan of the ruins of Tikal. Scale, 320 ft. = in. Size, 8.7 × 12.3 cm.

c. Plan of ruined town on Usumacinta river. Scale, 200 ft. = in. Size, 14.4 × 10 cm.

d. Plan of temple F, Tikal. Scale, 40 ft. = in. Size, 7.2 × 5.5 cm.

e. Plan of house A, Usumacinta. Scale, 40 ft. = in. Size, 7.2 × 5.5 cm.

f. Plan of house D, Usumacinta. Scale, 40 ft. = in. Size, 7.2 × 5.4 cm.

g. Plan of house E, Usumacinta. Scale, 40 ft. = in. Size, 7.2 × 5.4 cm.

Pp. v. 1883. P. 248.

6. West Indies.

762. Anegada, with its reefs, by R. H. Schomburgk. Scale [ca. 1.15 m. = in.]. Size, 23.7 × 18.6 cm.

Virgin islands. Scale [ca. 22 m. = in.]. Size, 8.5 × 5.5 cm.

J. ii. [1832.] Art. x. [xi.].

N. B. The article to which the map belongs is incorrectly numbered x; it should be xi.

763. The Virgin islands, shewing the set of the tide amongst them. Scale [ca. 3 m. = in.]. Size, 42.8 × 18.5 cm. J. v. 1835. P. 38.

764. Peninsula and bay of Samana in the Dominican republic, by Sir Robert H. Schomburgk. 1853. Scale [ca. 8 m. = in.]. Size, 23 × 17.9 cm.

J. xxiii. 1853. Art. xxi.

765. Chart to illustrate the landfall of Columbus, 12 October, 1492. By A. B. Becher, Captain R. N. 1856. Scale [ca. 34 m. = in.]. Size, 63 × 39 cm.

a. Watling island. By Mr. E. Barnett, R. N. 1816. The San Salvador of Columbus, 1492. The Landfall. Scale, 2.33 m. = in. Size, 17.9 × 21.6 cm.

b. The Crooked isles. Proposed Fragment isles of Columbus, 1492. Scale [ca. 17 m. = in.]. Size, 14.4 × 13.5 cm.

J. xxvi. 1856. P. 189.

766. Bahama islands, modern, to accompany Mr. Major's paper. Scale [ca. 165 m. = in.]. Size, 18.1 × 11 cm. J. xli. 1871. P. 193.

767. Bahama islands, Antonio de Herrera. 1601 [to accompany Mr. R. H. Major's paper]. Scale [ca. 233 m. = in.]. Size, 14.7 × 9.9 cm.

J. xli. 1871. P. 193.

768. Watling island [Bahama islands], to accompany Mr. Major's paper. Scale [ca. 2.5 m. = in.]. Size, 10.8 × 18.7 cm. J. xli. 1871. P. 193.

VII. SOUTH AMERICA.

1. General

769. The valley of the Amazons. Scale, 170 m. = in. Size, 30.6 × 19.4 cm.

O. H. ii. No. 5. 1872. P. 138.

770. Part of South America, showing the river system of the states adjoining Bolivia. Scale, 780 m. = in. Size, 12.8 × 9.7 cm.

Pp. iii. 1881. P. 448.

2. Colombia and Venezuela

771. Part of the Isthmus of Darien. Scale [ca. 9.2 m. = in.]. Size, 33.8 × 39.4 cm.

J. xxiii. 1853. Art. xv.

772. The Rio Negro, from observations made in the years 1851 and 1852 by Alfred R. Wallace. Scale [ca. 98 m. = in.]. Size, 25.8 × 13.4 cm.

Enlarged map of the River Uaupes [branch of the Rio Negro]. Scale [ca. 38 m. = in.]. Size, 25.8 × 10.7 cm.

J. xxiii. 1853. Art. xviii.

773. Isthmus of Panama. Map showing the route of Commander Prevost, from Rancho no. 1, on the Savana river, to Rancho no. 12, beyond Prevost river; with sections of the isthmus. By Lionel Gisborne, Esq., C. E. 1854. Scale, 12.4 m. = in. Size, 26.1 × 20.2 cm.

J. xxiv. 1854. P. 256.

774. Isthmus of Darien. Map showing the route of Commander Prevost, from rancho no. 1, on the Savana river, to rancho no. 12, beyond Prevost river; to which are added the surveys and sections of the isthmus. By Lionel Gisborne, Esq., C. E. 1854. Scale [ca. 9.5 m. = in.]. Size, 25.8 × 20.1 cm.

J. xxvii. 1857. P. 191.

775. The Isthmus of Panama, to illustrate the paper by Laurence Oliphant, Esq. Scale, 21.5 m. = in. Size, 18.3 × 23.6 cm.

J. xxxv. 1865. P. 143.

776. Mouths of the Bayanos river [Isthmus of Panama], (to accompany Mr. Oliphant's paper). Scale [ca. 1.2 m. = in.]. Size, 12.6 × 18.3 cm.

J. xxxv. 1865. P. 143.

777. Map of a part of the Isthmus of Darien, to accompany the paper by M. Lucien de Puydt. Scale, 9.6 m. = in. Size, 29.6 × 18.9 cm.

J. xxxviii. 1868. P. 69.

778. The Isthmus of Panama, showing the lines of canal referred to by Lieutenant Lucien N. B. Wyse. Scale, 22 m. = in. Size, 41.3 × 26.6 cm.

G. M. v. 1878. P. 81.

779. South America. Map of the northern part of the State of Magdalena, U. S. of Colombia, by Mr. F. A. A. Simons, 1879. Scale, ca. 13 m. = in. Size, 31.3 × 21.4 cm.

Pp. i. 1879. P. 752.

780. South America. Map of Sierra Nevada de Santa Marta, State of Magdalena, United States of Colombia; from a survey by Mr. F. A. A. Simons. 1881. Scale, 12.5 m. = in. Size, 36 × 44.6 cm.

Part of South America showing the position of Sierra Nevada de Santa Marta. Scale [ca. 260 m. = in.]. Size, 18 × 7.8 cm.

Pp. iii. 1881. P. 768.

781. The central and western provinces of Colombia. With corrections from the surveys of Mr. R. Blake White, C. E., to illustrate Mr. White's

paper in the Proceedings R. G. S., May, 1883. Scale, 46 m. = in. Size, 27.3 × 42.4 cm.

Pp. v. 1883. P. 312.

3. Guiana.

782. A sketch map of British Guiana, South America, compiled from the surveys and reports of Hancock, Hillhouse, and Dutch and Spanish authorities, with the probable boundaries between the British, Columbians, Portuguese and Dutch, by Captain J. E. Alexander, H. P. Late 16th Lancers. Scale [ca. 114 m. = in.]. Size, 12 × 20.5 cm.

J. ii. [1132.] Art. iii. (Anal.).

783. The Massaroony river [British Guiana], South America. By W. Hillhouse, Esq. 1830. Scale, 34.5 m. = in. Size, 21.4 × 18.3 cm.

J. iv. 1834. Art. ii.

784. Part of British Guyana. Scale [ca. 28 m. = in.]. Size, 17.4 × 11.1 cm.

J. iv. 1834. Art. i. (Misc.).

785. British Guayana, by Robert H. Schomburgk, Esq. 1836. Scale, 39 m. = in. Size, 19.4 × 35.8 cm.

J. vi. 1836. P. 283.

786. British Guayana, by Robert H. Schomburgk, Esq. 1837. Scale, 40 m. = in. Size, 19.2 × 36 cm.

J. vii. 1837. P. 350.

787. Map of Guayana, to illustrate the route of R. H. Schomburgk, Esq. 1840. Scale, 57 m. = in. Size, 38.8 × 27.2 cm.

J. x. 1841. P. 159.

788. Part of Guiana, to illustrate the excursions of the Chevalier Robert H. Schomburgk in 1841. Scale [ca. 21 m. = in.]. Size, 21.7 × 19.8 cm.

J. xii. 1842. Pt. ii. Art. iii.

789. Sketch map of the River Takutu. By Robert H. Schomburgk, K. R. E. May, 1842. Scale, 21 m. = in. Size, 11.4 × 19.4 cm.

J. xiii. 1843. Pt. i. Art. ii.

790. Map of a portion of British Guayana, to illustrate the route of Sir R. H. Schomburgk from Pirara to the Upper Corentyne. 1843. Scale, 35.5 m. = in. Size, 19.5 × 20.2 cm.

J. xv. 1845. Art. i.

791. Sketch map of a portion of the Essequibo and Potaro rivers, showing the position of Kaieteur fall [British Guiana], to accompany the paper by C. B. Brown, Esq. Scale, 14 m. = in. Size, 10.6 × 28.6 cm.

J. xli. 1871. P. 77.

792. Reduction of the map of British Guiana compiled from the surveys executed under Her Majesty's commission from 1841 to 1844, and under the direction of the Royal Geographical Society from 1835 to 1839, by Sir Robert H. Schomburgk, K. R. E., Ph.D. Revised and corrected to the present time by Cathcart Chalmers, Esq., Crown surveyor of the colony, and James Gay Sawkins, Esq., director of the geological survey of the West Indies and British Guiana. With additions by Charles B. Brown, Esq. 1875. Scale, 36 m. = in. Size, 28.3 × 41.2 cm.

Pp. ii. 1880. P. 528.

4. Ecuador.

793. Sketch map to illustrate explorations in Ecuador, in the years 1856 and 1857, by George James Pritchett, Esq. Scale, 65 m. = in. Size, 16.2 × 19.2 cm.

J. xxx. 1860. P. 64.

794. Map of the mountains of Llanganati, in the Quitonian Andes, by Don Atanasio Guzman. To illustrate a paper by Richard Spruce, Esq. Copiada del original por Ricardo Spruce, Ambato, Marzo 1^o, 1860. Scale, $\frac{1}{4}$ of the original, [ca. 4 m. = in.]. Size, 46.3 × 28.7.

J. xxxi. 1861. P. 163.

795. Diagram to illustrate the northern part of Mr. Whympers travels among the Great Andes of the Equator. Scale, 12 m. = in. Size, 13 × 20.6 cm. Pp. iii. 1881. P. 512.

5. Peru.

796. Plan of the rivers Ucayali and Amazon from the Mission of Sarayacu, to the Rio Negro, from the observations of Lieut. Wm. Smyth and Mr. Fredk Lowe, R. N. 1835. Scale, 36 m. = in. Size, 82.1 × 19.7 cm.

[Plan of the River Amazon] continued from the map of Spix and Martius to Para. Scale [ca. 102.4 m. = in.]. Size, 21.6 × 7.8 cm.

J. vi. 1836. P. 22.

797. Sketch of a route to the northward and eastward of Cuzco [Peru] by General Miller, July, 1835. Scale, 44 m. = in. Size, 12.8 × 19 cm.

J. vi. 1836. P. 186.

798. Survey of the Province of Tarapaca in the Department Arequipa, Peru, commenced in 1827 by Wm. Bollaert and Geo. Smith, with additions to 1851 by W. B. Drawn by A. Petermann. Scale, ca. 1: 1,200,000 [18.93 m. = in.]. Size, 20.3 × 30.3 cm. J. xxi. 1851. Art. x.

799. Sketch of a route from Cuzco to the supposed sources of the River Purus, to illustrate a paper by C. R. Markham, Esq. Scale, 30 m. = in. Size, 18.3 × 11.9 cm. J. xxv. 1855. p. 158.

800. Sketch map of the province of Carabaya, etc., in southern Peru, shewing the sources of the River Purus. By Clements R. Markham, Esq. Scale, 26 m. = in. Size, 24.6 × 17.7 cm. J. xxxi. 1861. P. 190.

801. Map of the River Purús, from near its source to its mouth. By W. Chandlees, Esq. Scale, 13.5 m. = in. Size, 170.9 × 20 cm. J. xxxvi. 1866. P. 87.

802. Map showing the course of the rivers S[an] Gavan and Esquilaya in the province of Carabaya, Peru, to accompany the paper by Sr. Raimondi. Scale, 9.33 m. = in. Size, 14.1 × 20.1 cm. J. xxxvii. 1867. P. 116.

803. Map showing the junction of the rivers Mantaro and Apurimac (Peru), to accompany the paper by Professor A. Raimondi. Scale, ca. 11 m. = in. Size, 18.6 × 19.7 cm. J. xxxviii. 1868. P. 413.

804. A plan of Cuzco [Peru], ancient and modern. Scale, 766 ft. = in. Size, 23.3 × 17.2 cm. J. xli. 1871. P. 281.

805. Ttahuantin-Suyu, or the empire of the Yncas (except Quito and Chile) in its four great divisions of Chinchá-Suyu, Cunti-Suyu, Anti-Suyu, Colla-Suyu, with their tribes and ayllus, or lineages, also the routes of the Ynca conquerors. By Clements R. Markham, C. B. Scale, 47 m. = in. Size, 67.2 × 63.1 cm.

An enlarged map of the cradle of the Ynca race. Scale [ca. 12 m. = in.]. Size, 17 × 9.2 cm.

J. xlii. 1872. P. 513.

806. Map of the Amazonas (in Peru). From the hydrographical and astronomical surveys of Peruvian officers and of A. Werthemann, C. E., 1864-70. By Lieut. Juan Salaverry, Peruvian Navy. Scale, 58 m. = in. Size, 26.1 × 15.6 cm. O. Hh. i. 1873. P. 265.

807. [Plan showing the "development" of Oroya railway route near San Bartolomé station, Peru.] Scale [ca. 2200 ft. = in.]. Size, ca. 9.5 × 4 cm. P. xviii. 1873-4. P. 207.

808. [Plan showing the "development" of the Oroya railway route between Matucana and San

Mateo, Peru.] Scale [ca. 3000 ft. = in.]. Size, ca. 8 × 6.5 cm. P. xviii. 1873-4. P. 209.

809. [Plan showing the "development" of the Oroya railway route near the junction of the Blanco river with the Rimac river, Peru.] Scale [ca. 2500 ft. = in.]. Size, ca. 10 × 5.5 cm. P. xviii. 1873-4. P. 210.

810. Map of southern Peru, to accompany Mr. Markham's paper. Scale, 59 m. = in. Size, 24.9 × 18.1 cm. J. xlv. 1874. P. 127.

811. [Sketch map showing the railways, open and projected, of Peru.] Scale, 43 m. = in. Size, 7.7 × 8.8 cm. G. M. i. 1874. P. 90.

812. Part of Peru and Bolivia, to illustrate the paper by Clements R. Markham, C. B., [on the Beni river]. Scale, 116 m. = in. Size, 12.1 × 12.9 cm. Pp. v. 1883. P. 376.

6. Bolivia.

813. The Bolivian Andes, to illustrate the papers by J. B. Pentland, Esq., and W. Parish, Esq. Scale [ca. 60 m. = in.]. Size, 21.9 × 19 cm. J. v. 1835. P. 88.

814. Bolivia. Sketch of the country between Cochabamba and Trinidad, to illustrate Col. Lloyd's route from the former city to Chimore. 1854. Scale, 35 m. = in. Size, 10.6 × 18.8 cm. J. xxiv. 1854. P. 259.

815. Map of the River Aquiray (an affluent of the Purús). [By W. Chandlees.] Scale, 14 m. = in. Size, 53.8 × 20.2 cm. J. xxxvi. 1866. P. 119.

816. Map of part of Bolivia, [eastern], from the surveys of J. B. Minchin, to illustrate the paper by G. C. Musters, Retired Commander R. N. Scale, 13.5 m. = in. Size, 20 × 31.4 cm. J. xlvii. 1877. P. 201.

817. Map of part of Bolivia, [south central], from the surveys of J. B. Minchin, to illustrate the paper by G. C. Musters, Retired Commander R. N. Scale, 13.5 m. = in. Size, 57.5 × 31.6 cm. J. xlvii. 1877. P. 201.

818. Map of part of the desert of Atacama (Bolivia), to accompany the paper by Mr. Josiah Harding. Scale, 24 m. = in. Size, 25.3 × 19.5 cm. J. xlvii. 1877. P. 251.

819. Map of the Madeira and Purus, from an official Brazilian ms. map, communicated by G. E. Church, Esq. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 50.8 × 57.6 cm. G. M. iv. 1877. P. 95.

820. South America. Map of the district of Atacama showing the territory in dispute between Chili and Bolivia. Scale, 24 m. = in. Size, 22 × 22.4 cm. Pp. i. 1879. P. 816.

821. South America. Map of [the eastern] part of Bolivia. Compiled from the survey of J. B. Minchin, Esq., engineer to the Bolivian government. Scale, 1: 3,600,000 [56.82 m. = in.]. Size, 43.2 × 38.7 cm.

Part of South America, showing the river system of the states adjoining Bolivia. Scale, 780 m. = in. Size, 12.8 × 9.7 cm.

Pp. iii. 1881. P. 448.

822. Part of the Bolivian table land. From a trigonometrical survey executed for the National Government in 1882, by J. B. Minchin. Scale, 17 m. = in. Size, 23.4 × 28.5 cm. Pp. iv. 1882. P. 712.

823. The Beni river. From a reduction of the original surveys of Dr. E. Heath, supplied by himself. Scale, 46 m. = in. Size, 23 × 31.7 cm.

Part of Peru and Bolivia, to illustrate the paper by Clements R. Markham, C. B. Scale, 116 m. = in. Size, 12.1 × 12.9 cm.

Pp. v. 1883. P. 376.

7. Brazil.

824. Plan of the rivers Ucayali and Amazon from the Mission of Sarayacu to the Rio Negro, from the observations of Lieut. Wm. Smyth and Mr. Fred'k Lowe, R. N. 1835. Scale, 36 m. = in. Size, 82.1 X 19.7 cm.

[Plan of the river Amazon] continued from the map of Spix and Martius to Para. Scale [ca. 102 m. = in.]. Size, 21.6 X 7.8 cm.

J. vi. 1836. P. 22.

825. Sketch of the Rio Negro, from the journal of Don Balilio Villarino. Scale, 52.22 m. = in. Size, 31.5 X 12.7 cm. J. vi. 1836. P. 168.

826. Map of Guayana, to illustrate the route of R. H. Schomburgk, Esq. 1840. Scale, 57 m. = in. Size, 38.8 X 27.2 cm. J. x. 1841. P. 159.

827. Sketch map of the river Takutu. By Rob't H. Schomburgk, K. R. S., May, 1842. Scale, 21 m. = in. Size, 11.4 X 19.4 cm.

J. xiii. 1843. Pt. 1. Art. ii.

828. The Rio Negro, from observations made in the years 1851 and 1852 by Alfred R. Wallace. Scale [ca. 98 m. = in.]. Size, 25.8 X 13.4 cm.

Enlarged map of the River Uaupes [branch of the Rio Negro]. Scale [ca. 38 m. = in.]. Size, 25.8 X 10.7 cm.

J. xxiii. 1853. Art. xviii.

829. Brazil. Map of the rivers Arinos, Juruena, and Tapajos, to accompany the notes of W. Chandless, Esq. 1862. Scale, 122 m. = in. Size, 11.6 X 19.8 cm. J. xxxii. 1862. P. 268.

830. Map of the River Purús, from near its source to its mouth. By W. Chandless, Esq. Scale, 13.5 m. = in. Size, 170.9 X 20 cm.

J. xxxvi. 1866. P. 87.

831. Map of the River Aquiri (an affluent of the Purús). [By W. Chandless.] Scale, 14 m. = in. Size, 53.8 X 20.2 cm. J. xxxvi. 1866. P. 119.

832. Map of the River Juruá, for an estimated distance of 980 geographical miles from its mouth, by W. Chandless, Esq. Scale, 14 m. = in. Size, 66.4 X 19.1 cm., and 48.2 X 19 cm.

J. xxxix. 1869. P. 296.

833. Map of the rivers Canumá, Abacaxis, and Maué-Assú and its tributaries (Brazil). Reduced from the original map by W. Chandless, Esq. Scale, 17.5 m. = in. Size, 27.3 X 31.9 cm.

Sketch map showing the connection of the rivers Canumá, etc., with the river Amazon. Scale [ca. 100 m. = in.]. Size, 10.1 X 7.5 cm.

J. xl. 1870. P. 419.

834. The valley of the Amazons. Scale, 170 m. = in. Size, 30.6 X 19.4 cm.

O. H. ii. no. 5. 1872. P. 138.

835. The valleys of the Tibagy and Ivahy, Province of the Paraná, South Brazil, by T. P. Bigg-Wither. Scale, 1: 1,250,000 [19.73 m. = in.]. Size, 47.7 X 31.5 cm. J. xli. 1876. P. 263.

836. Route map of journey through northeast Brazil, by James W. Wells, civil engineer. Scale [ca. 50 m. = in.]. Size, 23.5 X 35.3 cm.

J. xli. 1876. P. 309.

837. Map of the Madeira and Purus, from an official Brazilian ms. map, communicated by G. E. Church, Esq. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 50.8 X 57.6 cm.

G. M. iv. 1877. P. 95.

8. Paraguay and Uruguay.

838. A sketch map of Paraguay; compiled from the works of Azara, Page, Dugraty, Mouchez and Wisner, and from personal observations by Keith Johnston, in 1874-5. Scale, 19 m. = in. Size, 42.9 X 55.9 cm. G. M. ii. 1875. P. 264.

839. Estancia de San Jorge, Uruguay. From a survey by Don Juan Frugoni, Durazno, 1867. Scale, 3.25 m. = in. Size, 24.7 X 21.6 cm.

Uruguay. Scale, 88 m. = in. Size, 10.6 X 11.4 cm. Pp. ii. 1880. P. 720.

9. Chili.

840. Map of proposed line of railway across the Andes from Caldera to Fiambala; to accompany report of Mr. E. A. Flint's survey. Communicated by W. Wheelwright, Esq. Scale, 48 m. = in. Size, 20.1 X 11.3 cm. J. xxxi. 1861. P. 155.

841. Map of part of Patagonia, by Henry L. Jones, Esq., to accompany his notes. Scale, 70 m. = in. Size, 24.4 X 17.5 cm. J. xxxi. 1861. P. 204.

842. The Andes. Map to illustrate extracts from the narrative of a route across the southern Andes; by Don Guillermo Cox; 1862-3. Scale [ca. 21.6 m. = in.]. Size, 29.2 X 20 cm.

J. xxxiv. 1864. P. 205.

843. Map showing the projected railway route from Buenos Ayres to Chili, to accompany the paper by R. Crawford, Esq. Scale, 43 m. = in. Size, 57.4 X 19 cm. J. xliii. 1873. P. 47.

844. [Sketch map of Chili between the River Imperial and the southern portion of Chiloe island, to illustrate the survey by Don Francisco Vidal Gormaz in 1872.] Scale, 210 m. = in. Size, 7.9 X 8.5 cm. O. H. i. 1873. P. 74.

845. South America. Map of the district of Atacama showing the territory in dispute between Chili and Bolivia. Scale, 24 m. = in. Size, 22 X 22.4 cm. Pp. i. 1879. P. 816.

10. Argentine Republic.

846. Map of the Province of La Ríoja, shewing the routes of Messrs French, Gosselman, and Hibern. Scale, 57 m. = in. Size, 18 X 18 cm.

J. ix. 1839. P. 408.

847. Map of proposed line of railway across the Andes from Caldera to Fiambala; to accompany report of Mr. E. A. Flint's survey. Communicated by W. Wheelwright, Esq. Scale, 48 m. = in. Size, 20.1 X 11.3 cm. J. xxxi. 1861. P. 155.

848. The Andes. Map to illustrate extracts from the narrative of a route across the southern Andes; by Don Guillermo Cox; 1862-3. Scale [ca. 21.6 m. = in.]. Size, 29.2 X 20 cm.

J. xxxiv. 1864. P. 205.

849. Map of part of the Argentine Republic, to illustrate the paper by Mr. Consul Hutchinson. Scale, 63 m. = in. Size, 15.8 X 19.3 cm.

J. xxxiv. 1864. P. 226.

850. Map showing the projected railway route from Buenos Ayres to Chile, to accompany the paper by R. Crawford, Esq. Scale, 43 m. = in. Size, 57.4 X 19 cm. J. xliii. 1873. P. 47.

11. Patagonia.

851. Chart of a part of South America, surveyed by order of the Rt. Hon'ble the Lords Commissioners of the Admiralty, under the direction of Capt. P. P. King, R. N., during the years 1826-30. Scale [ca. 76 m. = in.]. Size, 19.7 X 27.1 cm.

J. [i.] 1830-31. No. 5. Art. xi.

852. River Santa Cruz [Patagonia]. Scale [23.7 m. = in.]. Size, 24.4 X 6.5 cm.

J. vii. 1837. P. 126.

853. Map of part of Patagonia, by Henry L. Jones, Esq., to accompany his notes. Scale, 70 m. = in. Size, 24.4 X 17.5 cm.

J. xxxi. 1861. P. 204.

854. Patagonia, to illustrate Capt'n Musters' route, 1869-70. Scale, 108 m. = in. Size, 19.2 X 30.5 cm. J. xli. 1871. P. 59.

855. [Map of east central Patagonia, to illustrate the paper on Mr. H. Durnford's explorations.] Scale [ca. 84 m. = in.]. Size, 10.7 X 9.6 cm.

Pp. v. 1883. P. 85.

VIII. POLAR REGIONS.

1. North Polar Region.

A. American.

856. Sketch shewing the route of the recent arctic land expedition. 1835. Scale [ca. 210 m. = in.]. Size, 22.4 X 16.9 cm. J. v. 1835. P. 410.

857. Map of the discoveries and route of the arctic land expedition, in the years 1833 and 1834. Surveyed and drawn by Captain Back, R. N. Scale, 38.9 m. = in. Size, 48.7 X 27.1 cm.

[Sketch-map of the northern part of North America and adjoining region, to illustrate the route of the arctic land expedition of 1833-34.] Scale [ca. 210 m. = in.]. Size, 24.3 X 15.5 cm.

J. vi. 1836. P. 11.

858. Discoveries of Messrs. Dease and Simpson in 1838-9. Chart of the coast from Coronation gulf to Boat river constructed from the narrative [of Messrs. Dease and Simpson]. Scale [31.1 m. = in.]. Size, 11.4 X 6.4 cm. J. x. 1841. P. 274.

859. Frobisher strait, from the journals of his voyage. By Commander A. B. Becher, R. N. — Northumberland inlet. By Capt'n Warham, of the whaler Lord Gambier, in 1841. Scale [10.8 m. = in.]. Size, 22.4 X 19 cm.

J. xlii. 1842. Pt. 1. Art. i.

860. Chart of the arctic coast [of North America] examined by Dr. J. Rae in spring and summer, 1851. Scale [ca. 34 m. = in.]. Size, 35.9 X 19.3 cm.

J. xxii. 1852. Arts. iv., v.

861. Chart shewing the discoveries and explorations of the travelling parties from the Prince Albert, under the command of W. Kennedy, Esq., in search of Sir John Franklin, 1851-2. Scale [ca. 42 m. = in.]. Size, 19.8 X 19 cm.

J. xxiii. 1853. Art. vii.

862. Chart of the northern portion of Baffin bay, to illustrate Comm'r Inglefield's report. 1853. Scale [ca. 69 m. = in.]. Size, 25.8 X 18.5 cm.

J. xxiii. 1853. Art. ix.

863. Sketch of the west coast of Greenland, to illustrate a paper on icebergs in the arctic seas by Dr. H. Rink. 1853. Scale [ca. 48 m. = in.]. Size, 10.6 X 19.5 cm.

J. xxiii. 1853. Art. x.

864. Sketch of the shores of arctic America, to illustrate the search for Sir John Franklin by Capt'n Collinson of H. M. S. Enterprise, 1850-1-2-3-4. Scale [ca. 102 m. = in.]. Size, 29.2 X 17.3 cm.

J. xxv. 1855. P. 206.

865. Map of the arctic exploration, from which resulted the first information of Sir John Franklin's missing party; by Dr. John Rae. 1854. Scale, 52 m. = in. Size, 19 X 12.4 cm.

J. xxv. 1855. P. 256.

866. Discoveries of the American arctic expedition (to the northward of Sir Thomas Smith sound) in search of Sir John Franklin 1853-4-5, under the command, and to illustrate the paper, of Dr. E. K. Kane, U. S. Navy. Scale, 50 m. = in. Size, 18.4 X 19.4 cm.

[Map of Baffin bay, Smith sound and Kennedy channel, to illustrate Dr. Kane's route, 1855.] Scale [ca. 115 m. = in.]. Size, 7.2 X 9.6 cm.

J. xxvi. 1856. P. 1.

867. Chart illustrating the remarks of Mr. Findlay, on the probable course pursued by Sir John Franklin's expedition; and of Capt'n Irminger on the arctic current around Greenland. Scale, 340 m. = in. Size, 33.5 X 30.6 cm. J. xxvi. 1856. P. 26.

868. American arctic expedition 1853-4-5. Map to accompany notes on the explorations made by the party under the command of Dr. E. K. Kane, U. S. Navy. By Dr. Henry Rink of Denmark. 1858. Scale, 42 m. = in. Size, 10.9 X 19.5 cm.

J. xxviii. 1858. P. 272.

869. Map of the north polar regions, to illustrate the paper on the origin and migrations of the Greenland Esquimaux, by C. R. Markham, Esq. Mean scale [ca. 70.5 m. = in.]. Size, 25.6 X 19 cm.

J. xxxv. 1865. P. 87.

870. Sketch of Baffin bay and the gateway to the North Pole. (On Mercator's projection.) Drawn for "Our ocean highways" by W. Hughes, F. R. G. S. Scale, 460 m. = in. Size, 21.3 X 31.5 cm.

O. H. ii. no. 2. 1872. P. [30].

871. [Map of Baffin's bay, by E. G. Ravenstein.] Scale, 1 : 20,000,000 [315.65 m. = in.]. Size, 7.6 X 11.5 cm.

O. H. ii. no. 9. 1872. P. 293.

872. Albert expedition. Capt. Otto. November-December, 1872. Temperature of the surface of the sea. H. Mohn. 1873. Equatorial scale [ca. 297 m. = in.]. Size, 11.6 X 24.1 cm.

O. H. i. 1873. P. 104.

873. Six maps of the Smith sound route, illustrating the progress of exploration from Bylot and Baffin to Hall, 1616-1873. Compiled by E. G. Ravenstein.

a. Bylot and Baffin. 1616. Scale, 1 : 10,000,000 [157.83 m. = in.]. Size, 4.1 X 4.5 cm.

b. J. C. Ross. 1818. Scale, 1 : 10,000,000 [157.83 m. = in.]. Size, 5.3 X 4 cm.

c. Inglefield. 1852. Scale, 1 : 10,000,000 [157.83 m. = in.]. Size, 5 X 5.5 cm.

d. Kane. 1853-55. Scale, 1 : 10,000,000 [157.83 m. = in.]. Size, 5 X 7.4 cm.

e. Hayes. 1860-61. Scale, 1 : 10,000,000 [157.83 m. = in.]. Size, 5 X 8.1 cm.

f. Hall. 1871-73. Scale, 1 : 5,000,000 [78.91 m. = in.]. Size, 9.8 X 19.6 cm.

O. H. i. 1873. P. 133.

874. Map illustrating Capt. A. H. Markham's voyage in the "Arctic," 1873. Compiled by E. G. Ravenstein. Scale, 1 : 7,500,000 [118.37 m. = in.]. Size, 25.5 X 35.9 cm.

a. [Map of Lancaster sound with Milne Land and Byam Martin Land. From survey by Capt. Markham.] Scale [ca. 36 m. = in.]. Size, 14.8 X 3.1 cm.

b. [Creswell bay, North Somerset. From Capt. Markham's survey.] Scale [ca. 22 m. = in.]. Size, 5 X 6 cm.

O. H. i. 1873. P. 309.

875. Map of part of the northern Atlantic, showing the tracks of H. M. S. "Alert," "Discovery," and "Valorous," 1875. Scale [ca. 186 m. = in.]. Size, 36.2 X 22.7 cm.

G. M. ii. 1875. P. 292.

876. Chart showing the track of H. M. S. "Alert," from Uppernivik to the Cary islands, 22-26 July, 1875. Equatorial scale [ca. 178 m. = in.]. Size, 25 X 16.7 cm.

G. M. ii. 1875. P. 329.

877. Arctic expedition, 1875-76 (Captain Nares, R. N.) Reduced from an Admiralty chart. Scale, 1 : 2,200,000 [34.72 m. = in.]. Size, 28 X 27 cm.

G. M. iii. 1876. P. 313.

878. The arctic regions [to illustrate C. R. Markham's paper on the arctic expedition of 1875-6]. Scale [ca. 422 m. = in.]. Size (diam.), 26.2 cm.

P. xxi. 1876-7. P. 537.

879. Arctic expedition, 1875-76 (Captain Nares, R. N.) Reduced from an Admiralty chart. Scale, 1 : 2,200,000 [34.72 m. = in.]. Size, 28.1 X 27 cm.

G. M. iv. 1877. P. 1.

880. Arctic expedition, 1875-6. Outward and return tracks on the sea ice extending northward to $83^{\circ} 20' 26''$ N. Made by the northern sledging party, under the command of Commander A. H. Markham, F. R. G. S., from H. M. S. Alert's winter quarters in Lat. $82^{\circ} 27'$ N., Long. $61^{\circ} 18'$ W., between April 3d and June 13th, 1876. Scale, 4 m. = in. Size, 18.7×37.3 cm. G. M. iv. 1877. P. 83.

881. Tracks of H. M. dog-sledge "Clements Markham," commanded by G. le C. Egerton, Sub. Lt., H. M. S. Alert. 1876. Scale [ca. 9 m. = in.]. Size, 20.2×29 cm. G. M. iv. 1877. P. 139.

882. Chart of Archer fiord [Grinnell Land], with sledge tracks April 8th to May 2nd, 1876. Scale [ca. 12 m. = in.]. Size, 16.8×16.9 cm. G. M. iv. 1877. P. 167.

883. Plan of Petermann fiord [Hall Land]. The coast line is taken from Lieut. Fulford's chart. Scale, *wanting*. Size, 8.6×16.9 cm. G. M. iv. 1877. P. 167.

884. King William Land, showing the line of retreat of the Franklin expedition. Scale [ca. 38 m. = in.]. Size, 14×20.9 cm. Pp. ii. 1880. P. 720.

885. Preliminary map of Wrangell island, from a survey by Capt. Berry, U. S. N., in the steamer "Rodgers," to illustrate the paper by C. R. Markham, C. B., Secretary R. G. S. Scale, 28 m. = in. Size, 27.8×21.6 cm.

Behring strait, showing the position of Wrangell island. Scale [ca. 330 m. = in.]. Size, 9.4×7.1 cm. Pp. iv. 1882. P. 64.

B. European.

886. Chart of the ice-field between Spitzbergen and Nova Zembla in 1676. Scale [ca. 200 m. = in.]. Size, 13×9.6 cm. P. ix. 1864-5. P. 175.

887. Sketch map of the countries referred to in the Zeno narrative [North Atlantic and Arctic seas]. Equatorial scale [ca. 1150 m. = in.]. Size, 19.3×20.1 cm.

[Map of the North sea and neighbouring lands.] Scale [ca. 380 m. = in.]. Size, 5.6×5.2 cm. J. xliiii. 1873. P. 157.

888. Carta da navegar de Nicolo et Antonio Zeni fvrno 111 tra montana l ano. M. ccc. lxxx. (Auto-type.) Scale [ca. 108 m. = in.]. Size, 38×28.2 cm. J. xliiii. 1873. P. 157.

889. A map of the Siberian polar sea. Compiled by E. G. Ravenstein, F. R. G. S. Equatorial scale [ca. 680 m. = in.]. Size, 32.7×5.3 cm. O. H. ii. no. 11. 1873. P. 358.

890. Isothermals of the North Atlantic and Polar sea. (After Dr. Petermann.) Equatorial scale [ca. 1665 m. = in.]. Size, 17.9×10.9 cm. P. xviii. 1873-4. P. 370.

891. [Preliminary sketch of the discoveries of the Austrian polar expeditions, 1871-4.] Scale [ca. 260 m. = in.]. Size, 7.4×9.1 cm. G. M. i. 1874. P. 271.

892. Map of the north polar regions (to illustrate General Hauslab's paper) [on oceanic currents]. Scale [ca. 440 m. = in.]. Size, (diam.) 19.6×19.7 cm. J. xlv. 1875. P. 39. Pl. 2.

893. A map of the Kara sea, shewing Capt. Wiggins's tracks in 1874 and 1876. Scale, 1: 3,000,000 [47.35 m. = in.]. Size, 49.1×41.5 cm. G. M. iv. 1877. P. 55.

894. The Swedish and Dutch arctic expeditions of 1878. Scale [ca. 12 m. = in.]. Size, 53.6×21.4 cm. Pp. i. 1879. P. 80.

895. Map of the Barents and Kara seas, illustrating the arctic campaign of 1879. Equatorial scale [ca. 166 m. = in.]. Size, 36.7×21.4 cm. Pp. ii. 1880. P. 80.

896. Ice chart of the Arctic ocean between Greenland and Spitzbergen. From observations by Capt'n David Gray. Equatorial scale [ca. 696 m. = in.]. Size, 23.5×32.4 cm. Pp. iii. 1881. P. 768.

2. Greenland.

897. Sketch of the west coast of Greenland, to illustrate a paper on icebergs in the arctic seas by Dr. H. Rink. 1853. Scale [ca. 48 m. = in.]. Size, 10.6×19.5 cm. J. xxiii. 1853. Art. x.

898. [Plan of the second fjord south of Arksut, Greenland.] Scale, *wanting*. Size, ca. 8×6 cm. P. xiv. 1869-70. P. 158.

899. [Sketch of the second fjord south of Arksut, Greenland.] Scale, *wanting*. Size, ca. 9.5×6 cm. J. xl. 1870. P. 230.

900. [Map of Greenland and Edge island, Spitzbergen.] From "Purchas his pilgrimes," vol. iii. Scale [ca. 44 m. = in.]. Size, 17.6×25.3 cm. J. xliiii. 1873. P. 83.

901. Sketch chart of the south west of Greenland, from the Danish Admiralty survey, corrected to 1873; with Professor Rafn's adaptation of the ancient sites from Ivar Bardsen's chorography. Scale [ca. 13 m. = in.]. Size, 33.2×19.6 cm. J. xliiii. 1873. P. 195.

902. Map of Mid Greenland, from the sketches and observations of Rink, Graah, Rohde, Steenstrup and Robert Brown. Equatorial scale [ca. 60 m. = in.]. Size, 20.6×21.7 cm. G. M. ii. 1875. P. 33.

903. Plan of the harbour of Holsteinborg (Greenland), and of its outlying islands and reefs. Surveyed after the grounding of H. M. S. Valorous, by Navigating Lieutenant George A. Broad, R. N. Scale, 3450 ft. = in. Size, 55.1×41.5 cm. G. M. ii. 1875. P. 304.

3. Iceland.

904. Map of Iceland, to illustrate the paper by W. L. Watts, Esq. Scale, 33 m. = in. Size, 25.3×19 cm. J. xlvii. 1876. P. 1.

905. Iceland, to illustrate the paper by Admiral Irmingier. Scale [ca. 81 m. = in.]. Size, 16.7×9.9 cm. J. xlix. 1879. P. 399.

906. East coast of Iceland, to illustrate the paper by Mr. W. G. Lock. Scale, 33 m. = in. Size, 13.1×21.7 cm.

[Sketch of the Askja lava field, Iceland.] From a survey by Lieut. Caroc. Scale, 1: 200,000 [3.15 m. = in.]. Size, 9.3×5.6 cm. Pp. iii. 1881. P. 512.

907. Map of Iceland, to illustrate the paper by Mr. Cuthbert E. Peek. Scale, 33 m. = in. Size, 25.5×19 cm. Pp. iv. 1882. P. 192.

908. Plan of the Great Geysir and neighbourhood, from a survey by Mr. Cuthbert E. Peek and Mr. John Coles. Scale, 1: 3240 [270 ft. = in.]. Size, 15.2×19 cm. Pp. iv. 1882. P. 192.

4. Spitzbergen.

909. Chart of Novaya Zemlya and the surrounding seas, showing the track of Barents on his 3d voyage, 1596-97. By Augustus Petermann, F. R. G. S. — Chart to illustrate A. Petermann's paper on the sea of Spitzbergen etc. (Taken by permission from the works of the Hakluyt Society.) Scale, 148 m. = in. Size, 27×20 cm. J. xxiii. 1853. Art. viii.

910. Map of Spitzbergen, to illustrate the paper by Professor Nordenskiöld and Capt'n von Otter. Equatorial scale [ca. 196 m. = in.]. Size, 19×24.3 cm. J. xxxix. 1869. P. 131.

911. [Map of Greenland and Edge island, Spitzbergen.] From "Purchas his pilgrimes," vol. iii. Scale [ca. 44 m. = in.]. Size, 17.5 × 25.3 cm.

J. xliii. 1873. P. 83.

912. Latest edition of Van Keulen's chart of Spitzbergen. 1707. — Nieuwe afteekening van Het Eyland Spitz-Bergen, opgegeven door de Commandeurs Giles en Outger Kep, en in't Ligt gebracht en uitgegeven door Gerard van Keulen, Boek en Zee-kaart verkoper aan de Nieuwen brug mel privilegie voor 15 Jaaren. Scale [ca. 31 m. = in.]. Size, 21.3 × 31.3 cm.

J. xliii. 1873. P. 83.

913. [Copies of the English and Dutch charts of Spitzbergen in the 17th and 18th centuries.]

a. Latest edition of Van Keulen's chart of Spitzbergen. 1707. — Nieuwe afteekening van het Eyland Spitz-Bergen, opgegeven door de Commandeurs Giles en Outger Kep, en in't Ligt gebracht en uitgegeven door Gerard van Keulen, Boek en Zee Kaart verkoper aan de Nieuwen brug mel Privilegie voor 15 Jaaren. Scale [ca. 31 m. = in.]. Size, 21.5 × 31 cm.

b. From "Purchas his pilgrimes." Vol. iii. Scale [ca. 43 m. = in.]. Size, 17.5 × 25.1 cm.

O. H. ii. no. 12. 1873. P. 388.

914. North and east of Spitzbergen. A sketch from the Swedish charts and Dr. Petermann's maps by Keith Johnston, F. R. G. S. Scale [ca. 46 m. = in.]. Size, 20.9 × 30.7 cm.

O. H. ii. no. 12. 1873. P. 390.

915. Discoveries to the east of Spitzbergen, in 1872, by the Norwegian captains Altmann, Johnsen and Nilsen. From the original chart compiled by Professor H. Mohn, 1872. Equatorial scale [ca. 63 m. = in.]. Size, 45.5 × 29.5 cm.

O. H. i. 1873. P. 19.

5. Novaia Zemlia.

916. Map of Novaia Zemlia, by Ziwołka, of the Russ. Imp. Mar., 1836. Scale [96.3 m. = in.]. Size, 11.1 × 18.5 cm.

J. viii. 1838. P. 414.

917. Chart of Novaya Zemlya and the surrounding seas, showing the track of Barents on his 3d voyage, 1596-97. By Augustus Petermann, F. R. G. S. — Chart to illustrate A. Petermann's paper on the sea of Spitzbergen etc. (Taken by permission from the works of the Hakluyt Society.) Scale, 148 m. = in. Size, 27 × 20 cm.

J. xxiii. 1853. Art. viii.

918. The Matyushin shar (Mattschkin scharr) and part of the east coast of Novaya Zemlya. Scale, 13.5 m. = in. Size, 14.3 × 21.1 cm.

Pp. ii. 1880. P. 80.

6. Franz Josef Land.

919. Map of Franz Joseph Land, illustrating an account of the Austro-Hungarian polar expedition, by Julius Payer. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 17.8 × 25.6 cm. G. M. i. 1874. P. 360.

920. Map of Franz Josef Land, from a survey by Julius Payer. Scale, 1: 1,500,000 [23.67 m. = in.]. Size, 18.2 × 25.5 cm.

J. xiv. 1875. P. 1.

921. Discoveries along the south coast of Franz Josef Land by Mr. B. Leigh Smith, 1880. Equatorial scale [ca. 145 m. = in.]. Size, 25.9 × 21.9 cm.

Pp. iii. 1881. P. 192.

922. Plan of Flora cottage, Cape Flora, Franz Josef Land. Mr. Leigh Smith's winter-quarters. Scale, 7.6 ft. = in. Size, 10.6 × 14.4 cm.

Pp. v. 1883. P. 215.

923. Chart showing Mr. Leigh Smith's track to Franz Josef Land and boat journey to Novaya Zemlya in 1881-82. Equatorial scale [ca. 416 m. = in.]. Size, 26 × 21.4 cm.

Pp. v. 1883. P. 248.

7. South Polar Regions.

924. The south-polar regions, to illustrate the paper by Staff-Commander J. E. Davis. Scale [ca. 636 m. = in.]. Size, (diam.) 23.7 × 24 cm.

J. xxxix. 1869. P. 91.

925. [Map of the south-polar regions.]

a. Transit of Venus, 1882, Dec'r 6. Stations for observation of the egress of Venus. The sun ascending. Venus leaving the upper limb. Egress retarded by parallax . . . to accompany the paper by Staff-Commander J. E. Davis, R. N. Scale [ca. 660 m. = in.]. Size, 19 × 11.2 cm.

b. Transit of Venus, 1882, Dec'r 6. Stations for observation of the ingress of Venus. The sun descending. Venus entering on the upper limb . . . to accompany the paper by Staff-Commander J. E. Davis, R. N. Scale [ca. 660 m. = in.]. Size, 19.5 × 11.2 cm.

J. xxxix. 1869. P. 92.

IX. OCEANS AND ISLANDS.

1. Atlantic Ocean.

926. Track of H. M. Sloop Onyx in search of Aitkin's rock, under the command of Capt'n A. T. E. Vidal, R. N. 1830. Scale [ca. 28 m. = in.]. Size, 49.9 × 20.9 cm.

J. [i.] 1830-31. Art. iv.

927. Deception island, New South Shetland, by Lieut. E. N. Kendall. 1829. Scale [ca. 2.3 m. = in.]. Size, 12.3 × 18.5 cm.

J. [i.] 1830-31. Art. vi.

928. East Falkland island, from papers communicated by Woodbine Parish, Esq. Scale [ca. 10.5 m. = in.]. Size, 21.7 × 23.3 cm.

[Chart of Berkeley sound, East Falkland island.] Scale, 4.7 = in. Size, 10.5 × 6.2 cm.

J. iii. 1833. Art. vi.

929. Part of the southern hemisphere, shewing recent discoveries. Scale [ca. 345 m. = in.]. Size (diam.), 26.2 × 26.5 cm.

J. iii. 1833. Art. viii.

930. The island of St. Mary's (Azores). 1845.

J. xv. 1845. Art. vi.

931. The island of St. Michael's (Azores). 1845. Scale, 5.76 m. = in. Size, 10.8 × 19 cm.

J. xv. 1845. Art. vii.

932. The Formigas (Azores), to illustrate the paper by Capt'n Vidal, R. N. Scale, 350 yds. = in. Size, 11.6 × 18 cm.

J. xix. 1849. Art. xv.

933. Chart of the prevalent surface currents of the Atlantic and Pacific oceans, by A. G. Findlay. Equatorial scale [ca. 1000 m. = in.]. Size, 34.3 × 19.6 cm.

J. xxiii. 1853. Art. xix.

934. Map of the North Atlantic ocean, showing the surveys and soundings for the Atlantic telegraph. Scale [ca. 178 m. = in.]. Size, 38.7 × 17.7 cm.

P. v. 1860-1. [P. 62.]

935. Chart of the currents off the Cape of Good Hope, to accompany Capt'n Toynbee's paper "On the specific gravity, temperature and currents of the sea," the result of a portion of five consecutive yearly voyages from England to India. Projected from the log-books by S. Com'dr C. George, map curator R. G. Soc'y. Scale, 10.36 m. = in. Size, 102.2 × 25.4 cm.

J. xxxv. 1865. P. 147.

936. Diagram of the Gulf Stream, to illustrate the paper by A. G. Findlay. Scale [ca. 428 m. = in.]. Size, 20.6 × 19.6 cm.

P. xiii. 1868-9. [P. 103.]

937. Surface temperatures of the North Atlantic, between Shetland and Greenland, collected by Admiral Irminger. Equatorial scale [ca. 213 m. = in.]. Size, 46.4 × 18.9 cm.

J. xl. 1870. P. 441.

938. Sketch map of the countries referred to in the Zeno narrative [North Atlantic and Arctic seas]. Equatorial scale [ca. 1150 m. = in.]. Size, 19.3 × 20.1 cm.

[Map of the North sea and neighbouring lands.] Scale [ca. 380 m. = in.]. Size, 5.6 × 5.2 cm.

J. xliiii. 1873. P. 157.

939. Carta da navegar de Nicolò et Antonio Zeni frono III tramontana l'ano . M. ccc. lxxx. (Auto-type.) Scale [ca. 108 m. = in.]. Size, 38 × 28.2 cm.

J. xliiii. 1873. P. 157.

940. Map of the Færøe islands, to illustrate the route of Nicolò Zeno. Scale [ca. 6 m. = in.]. Size, 16.7 × 25.8 cm.

J. xliiii. 1873. P. 163.

941. Voyage of H. M.'s ship Challenger, Capt. G. S. Nares. 1873. Equatorial scale [ca. 520 m. = in.]. Size, 26.3 × 16.1 cm.

O. Hh. i. 1873. P. 272.

942. Isothermals of the North Atlantic and Polar sea. (After Dr. Petermann.) Equatorial scale [ca. 1665 m. = in.]. Size, 17.9 × 10.9 cm.

P. xviii. 1873-4. P. 370.

943. Track of H. M. S. Challenger. Cape Verde is'ds to the Cape of Good Hope. 1873. Scale [ca. 1300 m. = in.]. Size, 7.8 × 8 cm.

G. M. i. 1874. P. 183.

944. Contour chart of the Atlantic ocean, from soundings to 1874 [by Capt. J. E. Davis]. Equatorial scale [ca. 578 m. = in.]. Size, 34.1 × 41.2 cm.

G. M. i. 1874. P. 224.

945. Map of the north polar regions (to illustrate General Hauslab's paper) [on oceanic currents]. Scale [ca. 440 m. = in.]. Size (diam.), 19.6 × 19.7 cm.

J. xlv. 1875. P. 39. Pl. 2.

946. Map of part of the northern Atlantic, showing the tracks of H. M. SS. 'Alert,' 'Discovery' and 'Valorous,' 1875. Scale [ca. 186 m. = in.]. Size, 36.2 × 22.7 cm.

G. M. ii. 1875. P. 292.

947. Atlantic ocean [to illustrate the paper by Dr. Carpenter on the temperature of the deep-sea bottom]. Equatorial scale [ca. 694 m. = in.]. Size, 27.3 × 39.3 cm.

P. xxi. 1876-7. P. 317.

948. Northern portion of Atlantic ocean [to illustrate Dr. Carpenter's paper on the temperature of the deep-sea bottom]. Scale [ca. 325 m. = in.]. Size, 21.7 × 18.7 cm.

P. xxi. 1876-7. P. 319.

949. Chart showing the distribution of saltiness in the ocean. Equatorial scale [ca. 2560 m. = in.]. Size, 29.8 × 16.5 cm.

J. xlvii. 1877. P. 73.

2. Mediterranean Sea.

950. Columbretes rocks near the coast of Valencia, by Capt'n W. H. Smyth, R. N., K. S. F., F. R. S. Scale [3036 ft. = in.]. Size, 12.2 × 16.8 cm.

J. [i.]. 1830-31. Art. v.

951. [Diagrams to illustrate General Hauslab's paper on oceanic currents.]

Fig. 1. Appearance of the bottom of the Adriatic sea. Scale [ca. 138 m. = in.]. Size, ca. 6 × 16 cm.

Fig. 2. Course of the descending river [Adriatic sea]. Scale [ca. 138 m. = in.]. Size, ca. 6 × 16 cm.

Fig. 3. Currents in the Adriatic sea. Scale [ca. 138 m. = in.]. Size, ca. 6 × 16 cm.

J. xlv. 1875. P. 34. Pl. i.

952. Map of Cyprus. 1878. Scale, 9 m. = in. Size, 41.5 × 25.2 cm.

G. M. v. 1878. P. 201.

953. Plan of Famagousta harbour [Cyprus]. Scale, 1800 ft. = in. Size, 10.4 × 18.3 cm.

Pp. i. 1879. P. 103.

3. Indian Ocean.

954. The Maldiva islands. From Capt'n Horsburgh's chart 1814. Equatorial scale [ca. 126 m. = in.]. Size, 11.7 × 20.1 cm.

J. ii. [1832.] Art. v.

955. Sketch showing the course of the hurricane of April 1847, on the Malabar coast and the probable position of the H. C. S. F. Cleopatra at the time. By T. G. Carless, Capt'n I. N. Scale [ca. 172 m. = in.]. Size, 11.1 × 17.5 cm.

J. xix. 1849. I Append., no. 2.

956. Chart of the Bay of Bengal, shewing the currents of the s. w. monsoon, by Lieut. J. A. Heathcote, H. M. I. Navy. Scale [ca. 26 m. = in.]. Size, 22.1 × 19.5 cm.

J. xxxii. 1862. P. 234.

957. [Stereoscopic map of the island of St. Paul, Indian ocean, to illustrate a paper by F. Galton.] Scale, *wanting*. Size, 14.5 × 7.2 cm.

J. xxxv. 1865. P. 100.

958. Chart of the currents off the Cape of Good Hope, to accompany Capt'n Toynbee's paper "On the specific gravity, temperature, and currents of the sea," the result of a portion of five consecutive yearly voyages from England to India. Projected from the log-books by S. Com'dr C. George, map curator R. G. Society. Scale, 10.36 m. = in. Size, 102.1 × 25.4 cm.

J. xxxv. 1865. P. 147.

959. Probable track of hurricane or cyclone [in Indian ocean] May, 1871. Scale [ca. 455 m. = in.]. Size, 7.6 × 5 cm.

G. M. i. 1874. P. 239.

960. [Sketch of track of "Challenger," Cape of Good Hope to Melbourne.] Scale [ca. 1120 m. = in.]. Size, 15.5 × 5.8 cm.

G. M. ii. 1875. P. 39.

961. [Sketch map of the Nicobar islands] Scale, 1: 5,000,000 [78.91 m. = in.]. Size, 4 × 6.4 cm.

G. M. ii. 1875. P. 44.

962. Indian ocean. Map of the Cocos or Keeling islands, exhibiting the changes that have taken place since 1836. Scale [ca. 1.3 m. = in.]. Size, 23.3 × 21.3 cm.

North island. Scale [ca. 4900 ft. = in.]. Size, 7.3 × 5.3 cm.

General map showing the relative position of the islands. Scale [ca. 11.4 m. = in.]. Size, 5 × 7.5 cm.

Pp. i. 1879. P. 816.

963. Map of the Andaman islands, illustrating the distribution of the tribes, to accompany the paper by E. H. Man, Esq., and Lieut. R. C. Temple. Scale, 17.5 m. = in. Size, 18.9 × 35.8 cm.

J. l. 1880. P. 255.

964. Sketch map of South Andaman and adjacent islands, to accompany the paper by E. H. Man, Esq. and Lieut. R. C. Temple. Scale, 5.25 m. = in. Size, 19.3 × 35.9 cm.

J. l. 1880. P. 255.

4. Pacific Ocean.

965. Chart of the prevalent surface currents of the Atlantic and Pacific oceans, by A. G. Findlay. Equatorial scale [ca. 1000 m. = in.]. Size, 34.3 × 19.6 cm.

J. xxiii. 1853. Art. xix.

966. Fiji islands. Map of the River Rewa and its tributaries, in the island of Na Viti Levu, to illustrate a paper by I. [J.] D. Macdonald, Esq., H. M. S. Herald. 1856. Scale, 5.76 m. = in. Size, 30.9 × 19.7 cm.

J. xxvii. 1857. P. 232.

967. Chart of the Sandwich islands, to accompany the paper by the Bishop of Honolulu [Thomas Staley]. Scale [ca. 35 m. = in.]. Size, 27.7 × 19.3 cm.

J. xxxviii. 1868. P. 361.

968. Chart of Rapa-Nui, or Easter Island (South Pacific ocean), to accompany the paper by J. L. Palmer, Esq., R. N. Scale [ca. 1.5 m. = in.]. Size, 24 × 18.7 cm.

J. xl. 1870. P. 167.

969. The Solomon, New Hebrides, and Santa Cruz groups (South Pacific ocean), to illustrate the paper by Lieut. A. H. Markham, R. N. Scale [ca. 68.7 m. = in.]. Size, 34.4 × 41.8 cm.

J. xlii. 1872. P. 213.

970. Map of the Viti or Fiji islands, principally from surveys and explorations, by Com'r Wilkes, U. S. N., Capt. H. M. Denham, R. N., 1857. Col. W. J. Smythe, B. Seemann, E. Graeffe and others; by E. G. Ravenstein. Scale, 1: 1,200,000 [18.94 m. = in.]. Size, 15.7 × 31.7 cm.

Ovalas. From a survey by Capt. H. M. Denham, 1856. Scale, 6.5 m. = in. Size, 5.6 × 8.8 cm.

G. M. i. 1874. P. 60.

971. Chart showing the distribution of saltiness in the ocean. Equatorial scale [ca. 2560 m. = in.]. Size, 29.8 × 16.5 cm. J. xlvii. 1877. P. 73.

972. Sketch survey of the north-east portion of New Britain by Mr. Wilfred Powell, 1878-9. Scale, 16 m. = in. Size, 35.7 × 21.5 cm.

[Sketch map showing the position of New Britain and the neighbouring islands.] Scale [ca. 206 m. = in.]. Size, 11.8 × 8.3 cm.

Pp. iii. 1881. P. 128.

X. MISCELLANEOUS.

1. Astronomical.

973. [Map of the south polar regions.]

a. Transit of Venus, 1882, Dec'r 6. Stations for observation of the egress of Venus. The sun ascending. Venus leaving the upper limb. Egress retarded by parallax . . . , to accompany the paper by Staff-Commander J. E. Davis, R. N. Scale [ca. 660 m. = in.]. Size, 19 × 11.2 cm.

b. Transit of Venus, 1882, Dec'r 6. Stations for observation of the ingress of Venus. The sun descending. Venus entering the upper limb . . . , to accompany the paper by Staff-Commander J. E. Davis, R. N. Scale [ca. 660 m. = in.]. Size, 19.5 × 11.2 cm.

J. xxxix. 1869. P. 92.

2. Magnetic.

974. [Map of the world showing] lines of equal magnetic variation, or declination (isogonic lines). 1878. Scale [ca. 3170 m. = in.]. Size, 21.7 × 11.2 cm. P. xxii. 1877-8. Pl. 1. P. 216.

975. Terrestrial magnetic meridians, and curves of equal dip, or inclination (isoclinical lines). 1878. Size, ca. 19.5 × 11.5 cm.

P. xxii. 1877-8. Pl. 2. P. 216.

976. The earth's magnetism, as shown by:

1. The distribution of lines upon the earth's surface passing through points of equal total force. (1878.)

2. The position of the magnetic poles and the line of no dip, or the magnetic equator.

3. The regions of blue and red magnetism. Size, ca. 22 × 13 cm. P. xxii. 1877-8. Pl. 3. P. 216.

3. Thermometrical.

977. Surface temperatures of the North Atlantic, between Shetland and Greenland, collected by Admiral Irminger. Equatorial scale [ca. 213 m. = in.]. Size, 46.4 × 18.9 cm. J. xl. 1870. P. 441.

978. Albert expedition. Capt. Otto. November-December, 1872. Temperature of the surface of the sea. H. Mohn. 1873. Equatorial scale [ca. 297 m. = in.]. Size, 11.6 × 24.1 cm.

O. Hh. i. 1873. P. 104.

979. Isothermals of the North Atlantic and Polar

sea. (After Dr. Petermann.) Equatorial scale [ca. 1665 m. = in.]. Size, 17.9 × 10.9 cm.

P. xviii. 1873-4. P. 370.

980. Atlantic ocean [to illustrate the paper by Dr. Carpenter on the temperature of the deep-sea bottom]. Equatorial scale [ca. 694 m. = in.]. Size, 27.3 × 39.3 cm. P. xxi. 1876-7. P. 317.

4. Meteorological.

981. Sketch showing the course of the hurricane of April 1847, on the Malabar coast, and the probable position of the H. C. S. F. Cleopatra at the time. By T. G. Carless, Cap'n I. N. Scale [ca. 172 m. = in.]. Size, 11.1 × 17.5 cm.

J. xix. 1849. I. Append. no. 2.

982. Sketch map to illustrate Professor Abich's paper on the climatology of the Caucasus. Scale [ca. 240 m. = in.]. Size, 19.4 × 10.9 cm.

J. xxi. 1851. Art. i.

983. [Diagram representing the midsummer position of the earth, to illustrate a paper by W. E. Hickson on the climate of the north pole.] Size, ca. 10 × 10 cm. J. xxxv. 1865. P. 131.

984. Map to illustrate the winds of northeast Australia, to accompany the paper by Dr. A. Rat-tray, M. D., R. N. Scale [ca. 143 m. = in.]. Size, 25.3 × 19.5 cm. J. xxxviii. 1868. P. 370.

985. Map illustrating the climate and physical geography of north-east Australia, to accompany the paper by Dr. A. Rat-tray, M. D., R. N. Scale [ca. 835 m. = in.]. Size, 34.4 × 19.8 cm.

J. xxxviii. 1868. P. 381.

986. Rainfall and forest trees in India. Drawn for "Ocean highways: the geographical record" by A. Keith Johnstone, F. R. G. S. Scale, 260 m. = in. Size, 20.9 × 29.6 cm.

O. H. ii. no. 7. 1872. P. 202.

987. Rain map [of southern India]. Scale [ca. 193 m. = in.]. Size, 6.5 × 7.1 cm.

G. M. i. 1874. P. 329.

5. Geological.

988. Sketch map showing the mineral and silk districts of the province of Shan-Tung (China), to accompany the paper by J. Markham, Esq., H. M. Consul at Chefoo. Scale, 32 m. = in. Size, 37.1 × 24.3 cm. J. xl. 1870. P. 207.

989. Geological map of eastern Turkey, by F. von Hochstetter. Scale, 1: 2,000,000 [31.57 m. = in.]. Size, 34.7 × 24 cm. O. Hh. i. 1873. P. 328.

6. Botanical.

990. Rainfall and forest trees in India. Drawn for "Ocean highways: the geographical record" by A. Keith Johnstone, F. R. G. S. Scale, 260 m. = in. Size, 20.9 × 29.6 cm.

O. Hh. ii. no. 7. 1872. P. 202.

991. The distribution of the caoutchouc tree, or *Ficus elastica*, in Assam. By Gustav Mann. Scale, 32 m. = in. Size, 46.4 × 21.9 cm.

O. Hh. i. 1873. P. 67.

992. Physical map of west coast of Africa, by H. H. Johnston. Scale [ca. 229 m. = in.]. Size, 11 × 21.3 cm. Pp. v. 1883. P. 752.

NOTE. The sub-heading 5. Central Asia was accidentally omitted between nos. 164 and 165.

REFERENCE LIST.

•• For the better identification of the individuals mentioned in the foregoing index the Compiler has given the full name so far as obtainable by him. In view of the fact that on the maps the explorer is sometimes referred to by initials, sometimes by surname alone, and rarely by the full Christian name, no attempt has here been made to indicate typographically the form in which the name stands in the index entry.

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No. 18.



A BIBLIOGRAPHY OF PTOLEMY'S GEOGRAPHY.

By JUSTIN WINSOR.

REPUBLISHED FROM THE BULLETIN OF HARVARD UNIVERSITY.

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A BIBLIOGRAPHY OF PTOLEMY'S GEOGRAPHY.

BY JUSTIN WINSOR,

Librarian of Harvard University.

*** An annotated list of editions of the original and augmented texts and translations, and of Wytfliet's Continuation, with particular reference to the development of early American Cartography; and with an enumeration of copies in American libraries.

1462.

Title: *Cosmographia, latine reddita, a Jacobo Angelo, cum castigationibus Hieron. Manfredi et Petri Boni.*

Colophon: *Hic finit cosmografia Ptolemei. Impressa opo Dominici de lapis civis bononiensis, anno M.CCCC.LXII, mense Junii xxiii, Bononie.* (Copied from Brunet.)

Description: This is the earliest of printed editions, if it exists; but bibliographers generally reject it. Copies are put down in Dibdin's *Bibliotheca Spenceriana* and in the *Walckenaer Catalogue* (formerly of the Colbert library), and another is in the Henry C. Murphy library of Brooklyn; but Mr. Murphy agreed with most authorities in thinking that its date should probably be 1482. Lanzi, *Storia Pittorica*, 1795-96, i. p. 97, places it about 1472. The question has been made the subject of a special treatise: *Osservazioni su la Edizione della Geografia di Tolomeo fatta in Bologna colla data de M.CCCC.LXII, Esposte da Bartolommeo Gamba.* Bassano, 1796, 4°, pp. 50.

De Bure used the Gaignat and Lauragais copies in his account, and seems to prefer 1472; and Gamba, who used a copy in the Casa Foscarini at Venice, inclines to the same view. Dibdin, in the *Bibl. Spenc.*, calls it spurious, and depends for his long note largely on Gamba preferring, however, 1482, as the date, as does the *Crevenna Catalogue* (1789) iv. 5708, and Hain, *Repert. Bibl. v.* See further references on this point in Græsse, *Trésor de livres*, v. 499.

Maps. With 26 maps, or plates, three of which are reproduced by Dibdin, who says they were usually colored. They are: 1 Mappemonde; 10 of Europe; 4 of Africa; 10 (but some give 11) of Asia, and 1 for the islands of India.

Copies (1.) *Henry C. Murphy library* (Brooklyn). First leaf missing, — fine otherwise; has the maps of the 1478 edition inserted.

References: *Bibliotheca Spenceriana*, ii. 293, for a copy bought at the Firmin Didot sale in Paris, in 1810, "for an exorbitant sum" (400 fr.). De Bure, *Bibliographie Instructive* (1763-68), v. 32; Lelewel, *Géographie du Moyen Age*, ii. 207; Brunet, *Manuel*, iv. 952; *Walckenaer Catalogue* (1833), no. 2238 (360 fr.); Audiffredi, *Editionum Italicarum* (1794), p. 12; Heineken, *Idée Générale d'une Collection Complète d'Estampes*, 145; Hain, *Repertorium Bibliographicum*, no. 13538; Græsse, *Trésor de Livres*, v. 499; *La Vallière Catalogue* (416 francs); *Crevenna Cat-*

logue (130 florins); Hoffmann, *Bibliog. Lexicon*, iii. 492; Hager, *Geograph. Büchersaal*, ii. 307; Rumohr, *Untersuch. d. Gründe &c.* Leipsic, 1841, p. 40.

1475.

Title: [*Cosmographia, latine reddita a Jac. Angelo.*]

Colophon: *En tibi lector Cosmographia Ptolemei ab Hermanno leuillapide Coloniensi Vincencie accuratissime impressa. Benedicto Triuisano: & Angelo Michaelae præsidentibus. M.CCCC.LXXV. Idi. sept.* (Copied from the *Carter-Brown Catalogue*.)

Description: Folio. The first undisputed edition, published by Ang. Vadius and Barnabas Picardus. The initial letters are usually in gold and colors; sometimes rubricated. The bibliographies vary as to the number of folios (containing 39 lines each), apparently as they include or omit blank leaves. Panzer, Leclerc, and Sunderland give 142. Brunet, *Carter-Brown*, Græsse give 144. The Grenville copy has an appendix of seven additional leaves.

The *Carter-Brown Catalogue* says: "The signatures, which are confused in their arrangement, begin with aa² and end with G.⁶"

Angelo's translation, the first made in latin, had been produced at Florence in 1409, and was dedicated to Pope Alexander V., and in the next year, Pierre d'Ailly, the cardinal of Amiens, referred to it in his *Imago Mundi*, and emphasized Ptolemy's opinion of India's lying over against Spain. We have other evidences of the spreading acquaintance with Ptolemy's views in Europe (Thomassy, *Les Papes Géographes*, p. 15, 34), and we know how D'Ailly's writings influenced the views of Columbus.

Pomponius Mela had been the representative among the ancients of the opposite school of geographers, who looked for the extension of the known world to the south of the equator. It may be claimed of the later developments, that the Spaniards in Columbus's sailing west justified the Ptolemy view; the Portuguese in Vasco de Gama's circumnavigating Africa proved the opposing theory; while Magellan brought both into complementary relation.

Maps: Without maps.

Copies: (1) *Library of Congress*, 142 leaves, not 144, as given in its catalogue. (2) *Carter-Brown library* (Providence). (3) *Henry C. Murphy library*.

References: *Catalogue of Library of Congress* (1867), p. 332; *Carter-Brown Catalogue*, i. no. 583;

Brunet, *Manuel*, iv. 951; Græsse, *Trésor de Livres*, v. 499; *Huth Catalogue*, iv. p. 1199; Leclerc, *Bibliotheca Americana* (1878), no. 468 (150 fr.); *Sunderland Catalogue*, iv. no. 10,353; *Walckenaer Catalogue*, no. 2235 (36 francs); *Bibliotheca Spenceriana*, ii. 292; Hain, *Repertorium Bibliographicum*, 13,536.

1478.

Title: [*Cosmographia*, *Latine*] **Colophon:** *Numeros Mathematicos inexplicabile ferme terre astrorumque opus Claudii Ptolemei Alexandrini philosophi Geographiam Arnoldus Buckinck e Germania Rome tabulis aeneis in picturis formatam impressit. Sempiterno ingenii artificiique monumento. Anno dominici natalis M.CCCC.LXXVIII. vi Idus Octobris Sedente Sixto, iiii. Pont. Max. anno ejus viii.* (Copied from Brunet, and corrected by a transcript from the Carter-Brown copy, furnished by Mr. J. R. Bartlett.)

Description: The dedication says that Domitius Calderinus is the editor, who collated Latin manuscripts with a very ancient one, corrected by Gemistus. Conrad Sweynheym, a German, took care of the press; and when he died, after spending three years upon it, Arnold Buckinck succeeded him, and finished the work. The Bibliothèque Nationale at Paris has a copy on vellum. There are 70 folios; but the last is blank, and excepting the preface, etc., it is printed in columns of 50 lines each. The preface is on the reverse of the first leaf, and is entitled: "Claudii Ptolemei Alexandrini Philosophi Cosmographia." On the recto of the following leaf: "Claudii Ptolemei Cosmographie liber primus hec habet." The first leaf of the text at the top of the second column: "Claudii Ptolemei viri Alexandrini Cosmographie liber primus incipit. In quo differt Cosmographia a Chorographia." On the 69th folio, recto, second column: "Claudii Ptolemei viri alexandrini Cosmographie octavus et ultimus liber finit." Same folio, verso, first column, the Colophon; second column: "Registrum foliorum huius libri," (34 lines), which state that the second and fourth gatherings are in tens, and the first, third, fifth, sixth, seventh, and eighth are in eights.

Mr. Bartlett says of the copy thus collated, which has been added to the Carter-Brown library since its *Catalogue*, vol. i, was printed: "The dots to the r's are invariably omitted. The ink is black, and holds its color remarkably well. The capital letters, beginning chapters and paragraphs, are in red and blue, and the large letter C at the beginning of the volume is red, surrounded by a simple blue border and scroll."

Maps: The first edition with maps, which are 27 in number, and engraved on copper, making the earliest instance of such engravings. They are described by Brunet as the finest ever engraved for any edition of Ptolemy; even superior to those of Mercator. They consist of one of the World, ten of Europe, four of Africa, and twelve of Asia.

Santarem (*Hist. de la Cartographie*, ii. p. LI) expresses the opinion that the Agathodemon series of maps, belonging to the old mss. of Ptolemy were not known to the map-makers of the middle ages, before the fifteenth century; and that the travels of Marco Polo had exerted no influence upon the geographical ideas of the thirteenth and fourteenth centuries.

The influence of Ptolemy on the cartographical ideas of the middle ages have been examined by Lelewel, *Géog. du Moyen-Age*, ii. 124.

M. Libri claims that maps engraved on metal first appeared in the following: *In questo volume si contengono sette giornate della geographia di Francesco Berlingieri, etc. Impresso in Firenze per Nicolo Todesco.* The book is without date, and is usually assigned to 1480. It has 123 folios and 31 maps, and they are inferior in execution to those of Ptolemy. There are some varieties of the book. Cf. Robert de Vaugondy, *Essai sur l'Histoire de la Géographie*; Brunet, *Manuel*, i. 790, *Supplément*, i. p. 111, and a *Noticia libri rarissimi geographia Fr. Berlinghieri florentini, scripta Chr. Th. de Murr*, Norimbergæ, 1790. The Murphy library has a copy of Berlingieri, "extremely valuable for its maps." The *Huth Catalogue*, i. p. 133, gives the book with this title: *Geographia di Francesco Berlinghieri in terza rima et lingua Toscana, etc.*, but thinks the title "no doubt printed at a much later date than the body of the book; and some copies have the first page quite blank." Quaritch priced a copy in 1880, at £63. A *Catalogue des monuments typographiques de feu M. Benj. Fillon*, no. 26 (sold in Paris, Jan. 1883), shows a copy, with a long note on the varieties in copies known.

The Ptolemy maps are also of interest as showing the views regarding the Western Ocean, prevalent a few years before the sailing of Columbus. Consult Davezac "Sur les îles fantastiques de l'océan occidental au moyen âge" in the *Nouvelles Annales des Voyages*, Mar. and Apr. 1845, and his paper on the Laon globe with a projection of it in *Bull. de la Soc. Géog.* (1860) xx. 417. This globe also shows an island "Antela" off the coast of Spain, and Davezac says that, according to Pierre de Medina, the copy of Ptolemy which was presented to Pope Urban (died 1389) also had a map showing a corresponding Antillia. Behaim's globe puts it much farther away than the Laon globe, and says that it had been observed by a Spanish vessel in 1414. The Laon globe would seem to represent the knowledge of about 1486-87, though it has a date upon it of 1493. In 1456 a Genoese, Bartolomeus de Pereto, also made a hydrographical chart of the western ocean, on which a western island is called "Antilia," and one more westerly is named "Roillo." The Canaries are called the "îles fortunées de Saint Brandum." Cf. Thomassy, *Les Papes Géographes*, p. 20, who says the map is in the Bibliothèque Nationale at Paris; and Santarem's *Hist. de la Cartographie*. Desimoni in his "Elenco di carte di autore genovese oppure in Genova fatti o conservati," published in *Giornale Ligustico*, claims the production for Genoa, and says it is inscribed: "Pbr. Bartholomeus de Pareto civis Janue acolitus Smi Dñi nri Pape composuit hanc cartam MCCCCLV in Janua."

The map of André Bianco (preserved in the Biblioteca Marciana at Venice) had also given some indications of western islands as early as 1436, and it has been made the subject of an examination by Vincenzo Formaleoni, who printed a paper in Italian in 1783, *Saggio sulla nautica antica dei Veneziani*, pp. 60 (according to Sabin's *Dictionary*, a rare tract) and which appeared in a French version in 1788, published at Venice, with this title: *Essai sur la marine ancienne des Vénitiens, dans lequel on a mis en jour plusieurs cartes tirées de la bibliothèque de St. Marc, antérieures à la découverte de Colomb, et qui indiquent clairement l'existence des îles Antilles; traduit de l'italien par le Chevalier d'Hemin*. Formaleoni was inclined to place this map much earlier than 1436, but Santarem gives an inscription on one of the maps: "Andreas Bianco de Venetiis me fecit MCCCXXXVI." (*Hist. de la Cartographie*, iii. 369.)

Bianco's map, which appeared in this Essay, has also been reproduced in *Il Mercurio italico*, London 1789; and later in Santarem's *Atlas*. A full-size photographic reproduction of it in ten sheets, with an introduction by Oscar Peschel, was published at Venice in 1871. Cf. D'Anse de Villosion in Carli's *Lettres Américaines* ii. p. 519; and Zurla's *Dissertation* on the ancient Venetian Charts. A "Carta nautica membranacea dell'anno 1448" of Bianco, which is now in the Biblioteca Ambrosiana at Milan, was reproduced by photography in four sheets at Venice in 1881.

The student of Columbian cartography must always regret the disappearance of the map which Toscanelli sent to Columbus in 1474, those of the father-in-law of Columbus, Pallestrello, which came into the great navigator's hands at his marriage, and the map which Bartholomew Columbus presented to Henry VII., and issued in London in February, 1488 (cf. Kohl's *Catalogue of Maps in Hakluyt*, p. 8 and his paper on *Lost maps*; Humboldt's *Exam. Critique*, i. 239). We can best judge of the configuration which these map-makers gave to the western ocean by the use which Behaim probably made of them, or of the information which they embodied, in his famous globe preserved at Nuremberg. The earliest known facsimile of this globe appeared in 1730 in Johann Gabriel Doppelmayr's *Historische Nachricht von den nürnbergischen Mathematicis und Künstlern*. Stevens, *Hist. Coll.* i. no. 1396, speaking of this book says: "Among the twenty copperplates is the earliest facsimile of Behaim's globe, taken before that globe had been restored, and before some of the names were lost. For instance, we here find *India patalis*, a name now effaced from the globe, but which may hint the origin of Oronce Fine's *Regio patalis* in his map of 1532, which has so much puzzled geographers." Cf. Gosselin, *Géog. Système des Anciens*, iii. 201. A representation of the globe in Ruge's *Geschichte des Zeitalters der Entdeckungen* has the true outline of North America drawn in, which makes the western coast of Mexico bisect the island of Zipangu.

Cf. the paper on "Martin Behaim's globe and his influence upon geographical science," in the American Geographical Society's *Journal*, iv. (1872) p. 432.

There are other representations of this globe in Jomard's *Monuments de la Géog.*; Ghillany's *Martin Behaim*, and his *Der Erdglobus des Martin Behaim und der des Joh. Schoner*, Nuremberg, 1842; C. G. von Murr's *Diplomatische Geschichte des Ritters Martin Behaim*, Nürnberg, 1778; and again, 1801, and the French version of the same by H. J. Jansen, published in a third edition at Strassbourg in 1802; Cladera's *Investigaciones* 1794, which has a Spanish version of Von Murr's paper; Lelewel's *Moyen Age*; Royal Geog. Society's *Journal*, xviii.; Kohl's *Disc. of Maine*; Irving's *Columbus*; Bryant & Gay's *United States*, i. 103; *Harper's Monthly*, xlii.; H. H. Bancroft's *Central America*, i. 93. Cf. also Pigafetta's *Premier voyage autour du monde*; *suivi d'une notice* [by C. G. von Murr, translated by H. J. Jansen] sur *M. Behaim et son globe terrestre*, Paris, 1800; Robert Dodge on Behaim and his globe, and John G. Morris's account of Behaim in the publications of the Maryland Historical Society.

The *Catalogue of the manuscript maps in the British museum*, 1844, vol. i. shows several Portolani of the century preceding Columbus; cf. also *British museum MSS.* no. 22329 (anno 1472) and the enumeration of maps in Santarem's *Histoire de la Cartographie*.

Copies. — (1) *Carter-Brown Library*, — sound and perfect, bound in olive morocco by Bedford.

The copy in the Murphy library has the maps belonging to it, inserted in the 1462 (?) edition.

References. — *Bibliotheca Spenceriana*, iv. 537, describing a copy bought at the Merly sale for £31 10s., — eleven maps being lacking, with facsimiles of parts of the maps; *Walckenaer Catalogue*, no. 2236 (975 francs); *Perkins Catalogue*, London, June, 1873, £80, — a copy afterwards advertised in a London catalogue for £100; Brunet, *Manuel*, iv. 952, *Supplément*, ii. 328. Quaritch in February, 1879 (*Catalogue*, 321, no. 11,697), advertised a copy at £80, and referred to a copy sold in a London auction room, four years earlier, at £90. Raidelius, *Commentatio critico-litteraria de Ptolemai Geographia ejusque codicibus tam manuscriptis quam typis expressis*, Norimbergæ, 1734, cap. vii; Audiffredi, *Catalogus Romanarum editionum*, p. 229; Stevens, *Bibliotheca Geographica*, no. 3057; Crevenna, *Catalogue raisonné* (1775), v. 14; and *Catalogue* (1789), iv. no. 5707 (120 florins); Duc de la Vallière, *Catalogue*, no. 4480 (242 francs); P. Laire, *Index librorum*; Hibbert, *Catalogue* (£19 19s.); *Bibliotheca Grenvilliana*, ii. 581; Hain, *Repertorium Bibliographicum*, no. 13,537; Quaritch, *Catalogue* (1880), p. 1153; Grasse, *Trésor de livres*, v. 499.

1480.

Thomassy, *Les Papes Géographes*, p. 22, cites a Bologna edition of this year.

1481.

Thomassy, *Les Papes Géographes*, p. 22, cites a Florence edition of this year.

1482.

Title: *Cladii Ptolemei viri Alexandrini Cosmographia, liber primus incipit.*

Colophon: *Claudii Ptolomei viri Alexandrini cosmographia octavus et ultimus liber explicit: opus Domini Nicolai Germani secundus Ptolomeum finit, anno MCCCCLXXXII, Augusti vero kalendas xvii, impressum Ulme per ingeniosum virum Leonardum Hol prefati oppidi civis.* (Copied from the Fillon *Catalogue*).

Description: The Latin text is Jacobus Angelo's, in this edition revised by Donnis or Donis, a Benedictine of Reichenbach in Bavaria. The capital letters and borders are illuminated, — a specimen of which is shown in the facsimile of the first page given in the *Carter-Brown Catalogue*, i. p. 1. Printed in two columns of forty-four lines each. Some copies are on vellum; such are in the Bibliothèque nationale at Paris, the British museum, and at Althorpe (Earl Spencer's). There are some variations in copies. A second impression only seems to have the Register of forty-six folios printed in two columns in smaller type, fifty-seven lines each. A full collation requires sixty-nine unnumbered leaves. Some copies have seventeen additional leaves, with table of chapters. The *Bibliotheca Spenceriana*, ii. 301, gives a facsimile of the wood-cut representing Donnis presenting the book to Pope Paul II., and of the wood-cut of Ptolemy, which begins the text.

Maps. — Thirty-two in number, cut on wood, occupying double leaves, usually colored. They are: one of the world, fourteen of Europe, four of Africa, and thirteen of Asia. The map of the world is

marked: "Insculptum est per Joannē Schnitzer de Armszheim." The only part of America shown is Greenland, and called "Engroneland." This is said to have been made by Donis before 1471, and is one of the five maps added to this edition by him,—"curam mapparum gerente Nicolao Donis, Germano." It is believed to be the earliest known configuration of Greenland, given on any published map, for if we accept the Zeno chart with its alleged date of about 1400, it is to be borne in mind that it was not engraved till 1558. That map also, like this, made the peninsula a prolongation of Europe in a westerly direction. It is a fair deduction that Donis was acquainted with the productions of the Norse map-makers. The most westerly land which he gives is the Azores. Santarem, *Hist. de la Cartog.*, iii. p. xix. says the earliest representation of Greenland on any manuscript map occurs in the Mappemonde of 1447, preserved in the Pitti palace.

In the Laon globe (1486-87) "Grolandia" is put down as an island off the Norway coast.

Leclerc, *Bibl. Amer.*, no. 469, prices the maps only at 150 francs.

Copies.—(1) *Carter-Brown library*. (2) *Henry C. Murphy library* (with the maps plain).

References.—*Carter-Brown Catalogue*, i. no. 1; *Bibliotheca Spenceriana*, ii. 301; *Chatsworth Catalogue*, iii. 268; Brunet, *Manuel*, iv. 952, 953; Audiffredi, *Cat. Romanarum Editionum* (1783), p. 252; Leclerc, *Bibl. Americana*, no. 469; Hain, *Repertorium*, 13,539; *Bibliotheca Grenvilliana*, 581; Van Praet, *Liures sur vellin*, v. 1, vi. 124 with references; *Walckenaer Catalogue*, no. 2240, 2241 (185 francs); Græsse, *Trésor de livres*, v. 500; Panzer, *Annales Typog.*, ii. 480; Hassler, *Buchdruckergeschichte Ulms*.

1486.

Title.—*Ptolomæi Geographia latine reddita a Jacobo Angelo, curam mapparum gerente Nicolao Donis Germano.*

Colophon.—*Impressum Ulma opera et expensis Justo de Albano de Venetiis per provisorem suum Johannem Reger, anno M.CCCC.LXXXVI. Kalend Augusti.* (Copied from Brunet.)

Description: Folio. This is the Angelo Latin version, with some additions. The initial letters are handworked in colors. In roman letter, double columns, of 44 lines each, having 204 folios in all; i. e. 42, table and nota; 74, text; 64, maps; 24, "De locis ac mirabilibus mundi."

Maps: The same thirty-two wood-cut maps, colored, as in the 1482 edition.

Copies.—(1) *Henry C. Murphy library*. (2) *George W. Riggs* (Washington, D. C.), with manuscript marginal notes in Latin,—the first leaf before the table of names wanting.

References: Dibdin, *Descriptive Catalogue* (1823), p. 105; Hain, *Repertorium*, 13,540; *Sunderland Catalogue*, iv. 10,354; Brunet, *Manuel*, iv. 953; Muller, *Books on America* (1877), no. 2617; (1875) no. 3243; Van Praet, *Liures sur vellin, suite*, iii. p. 2; Græsse, *Trésor de livres*, v. 500; Quaritch priced a copy recently at £8 8s.

1490.

Title: *Claudii Ptolemaei Geographia libri viii.*

Colophon: *Hoc opus Ptholomei memorabile quidem et insigne exactissima diligentia castigatum inucondo quo-*

dam caractere impressum fuit et completum Rome anno a nativitate domini M.CCCC.LXXXX. die iv Novembris. Arte ac impensis Petri de Turre. (Copied from Audiffredi.)

Description: Folio. 118 (Brunet says 119) leaves, of which 4 are blank, and in two columns of 53 lines each; the "Registrum Alphabeticum" takes 34 leaves.

Maps: 27 copperplate maps, the same as in the 1478 edition, including one of the World, 10 of Europe, 4 of Africa, and 12 of Asia.

Copies: (1) *Carter-Brown library*. (2) *Henry C. Murphy library*.

References: *Carter-Brown Catalogue*, no. 584; Leclerc, *Bibl. Amer.*, no. 470 (200 francs); Brunet, *Manuel*, iv. 954; Hain, *Repertorium*, 13541; Audiffredi, *Cat. Rom. edit.*, p. 299; Græsse, *Trésor de livres*, v. 500; *Walckenaer Catalogue*, no. 2242 (60 francs); *Crevenna Catalogue* (quarto), v. 18.

1500 (?).

Title: *Cl. Ptolomæi Geographia libri viii.*

Description: Folio. Noted by Butsch, but thought to be apocryphal.

Maps: 27 on copper.

Copies:

References: Græsse, *Trésor de Livres*, v. 500.

1507.

Title: *In hoc opere hæc continetur Geographia Cl. Ptholomæi a plurimis viris utriusque linguae doctiss. emendata; & cū Archetypo græco ab ipsis collata. Schemata cū demonstrationibus suis correctæ a Marco monacho Celestino Beneventano: & Joanne Cota Veronensi viris mathematicis consultissimis. Figura de projectione Sphæra in plano quæ in libro octavo desiderabatur ab ipsis ne dum instaurata sed fere ad inventa; ejus n. vestigia in nullo etiâ græco codice extabant. . . . Planisphaerium Cl. Ptholomæi noviter recognitum & diligentiss. emendatum a Marco monacho Celestino Beneventano.*

Colophon: . . . *Noviter impressum per Bernardinū Venetū de Vitalibus. Expensis Evangelista Tosino Briziano Bibliopola Impante Julio II. Pont. Max. anno III. Pōtificatus sui. Die viii Septembr. M.D.VII.* (Copied from Brunet.)

Description: Large folio, 107 leaves, and one blank leaf beside the maps. The first capital of the title is a plain letter.

Pope Julius II. on the 28th July, 1506, gave to Tosinus, the publisher, the exclusive sale of his edition for six years, in consideration of the labor and expense which had been bestowed on it, including the describing and defining the position of the new-found lands.

Maps: There are the 27 maps used in the 1478 and 1490 editions, with six new ones added,—namely, one showing Poland, Hungary, Germany, Russia, and Lithuania; and five others, showing each, Spain, France, Livonia, Italy, and Judea,—making 33 maps in all. The new maps are not so well executed as the older ones.

Copies: (1) *Carter-Brown library*. (2) *Henry C. Murphy library* with Ruysch's map of the 1508 edition inserted.

References: *Carter-Brown Catalogue*, no. 31; Brunet, *Manuel, Supplément*, ii. 329, who calls a copy worth about 500 francs; *Walckenaer Catalogue*, no. 2243 (41 francs); Grasse, *Trésor de livres*, v. 500.

1508.

Title: *In hoc opere hac continentur Geographia Cl. Ptolemai a plurimis viris utriusque linguae doctiss. emendata: & cū archetypo græco ab ipsis collata. Schemata cū demonstrationibus suis correcta a Marco Beneventano Monacho Caestino, & Ioanne Cotta Veronensi viris Mathematicis consultissimis. . . Nova orbis descriptio ac nova Oceani navigatio qua Lisbona ad Indicū pervenitur pelagus Marco Beneventano monacho caestino adita. Nova & Universalior Orbis cogniti tabula Iod. Ruysch Germano elaborata. . . Anno Virginiei Partus, MDVIII. Rome.* (Copied from Stevens's *Nuggets*, and compared with the Astor copy.)

Description: Large folio, Roman letter, in double columns. The first capital of the title is an ornamented letter. There are after the title, 34 preliminary leaves with illuminated letters at the beginning of the inscription, and throughout the Register; 72 (with one blank) unnumbered leaves for text with ornamented initial letters, most of them illuminated; 14 leaves for Beneventanus's "Nova orbis descriptio"; 22 leaves, "de tribus orbis partibus"; and next the 34 maps. The order of parts is sometimes changed in binding. A re-issue of the 1507 edition, with the description of Beneventanus, concerning "Terra Nova" and "Santa Cruz" added.

There had appeared two years before (1506) in Bergamo's *Novissime historiarum omnium reperusiones, noviter editæ*, printed at Venice, a chapter, under date of 1492, entitled, "De quattuor maximis insulis in India extra orbem nuper inventis,"—a stout folio, priced by Quaritch at £12; but neither this, nor the *Cosmographia Introductio* (1507), nor other earlier mentions of the new-found islands, had been accompanied by maps of them.

Maps: Those of the 1507 edition, with an additional one of the New World, by Johan Ruysch, entitled, *Universalior Cogniti Orbis Tabula ex recentibus confecta observationibus*, and measuring 21¼ × 16 inches. This is the first engraved map showing any part of the recently discovered land in America. The text on the new lands is on p. 194, *et seq.* Ruysch is said to have sailed to Newfoundland in a ship from Bristol. There are two states of this American map, —one having the words "Plisacus sinus" on the eastern coast of Asia, which is made to be the same land discovered by Cabot (as in the Harvard College copy and in one of the Murphy copies), and the other state omits these words (as in the second of the Murphy copies). South America, called "Terra Sanctæ crucis, sive mundus novus," is represented as a distinct continent, but with undefined southern and western limits, with Cuba (half-drawn), and the other islands north of it. Greenland, which had been drawn in earlier maps as a peninsula of Europe, is here made the northeastern corner of Asia. The coast-line of Asia in these early maps is usually said to be drawn from Marco Polo, whence also Behaim in his globe got his contours; but this coast in Ruysch's map only faintly resembles Behaim's. Harvard College library and Mr. Samuel L. M. Barlow have this map, but not the book. Harrisse, *Cabot*, p. 164, says this Barlow copy shows no marks of ever having been bound in a book; and that the copy of the 1507 edition in public library of Verona has this 1508 map, as does the Murphy copy, already mentioned.

Facsimiles or representations of the map have been issued in Santarem's *Atlas composé de mappemondes depuis le V^e jusqu'au XVII^e siècle*; Lelewel's *Atlas*; Varnhagen's *Novos Estudos*, etc., Vienna 1874, 8 pp. (map in part); Humboldt's *Examen Critique*, v., and his essay on the oldest maps in Ghilany's *Ritter Behaim*; Henry Stevens, *Hist. and Geog. Notes*, pl. 2 (cf. an examination of Stevens's opinions in *Hist. Mag.*, Aug. 1869, p. 107); Ruge, *Geschichte des Zeitalters der Entdeckungen*; Kohl, *Discovery of Maine*, i. 156; *Narrative and Critical History of America*, vol. iii.; Charles P. Daly's *Early Hist. of Cartography*, p. 32; Hubert H. Bancroft's *Central America*, i., —the last two on a small scale.

It is maintained that Ruysch may have used Columbus's map of 1498 and Cabot's missing charts. The latest trace of any of Sebastian Cabot's MS. maps is said to have been in 1575, when Juan de Ovando, the President of the Council of the Indies, died, and among his effects offered at public sale was an old illuminated map on parchment, "por Sebastian Gaboto," which Philip II. was at the time urged to take possession of. Cf. Harrisse, *Jean et Sébastien Cabot*, pp. 150, 151. See Kohl's paper on *Lost Maps*, regarding the charts of Columbus and the missing chart of Bartholomew Columbus (1505) which recorded the discoveries in the Antilles, and the map which showed the discoveries of Vesputius. Of other manuscript maps, we can trace but few of an antecedent date, which could have been of service to Ruysch, and which have come down to us. The earliest of these is the well-known LaCosa map (1500), and the other is a "Carta da Navigare," which is attributed to Alberto Cantino, and is supposed to have been made in 1501-1503, to illustrate the third voyage of Columbus. The original is in the Biblioteca Estense at Modena, and a facsimile of it is announced for publication in Italy by Ongania in his *Raccolta di Mappamondi e carte nautiche del XIII. al XVI. secolo*, edited by Prof. Theobald Fischer of Kiel. The description given in Harrisse (*Cabot*, pp. 143, 158) shows that it is also of interest in connection with the voyages of the Cortereals and Cabral; and was probably not the work of Cantino, but presented by him to his sovereign. Harrisse mentions having received a facsimile of the map, the publication of which he defers till his work on the Cortereals, now in press, appears. The LaCosa map can best be studied in the full-size facsimile given in Jomard's *Monuments de la Géographie*. Various other reproductions are enumerated in the *Narrative and Critical Hist. of America*, iii. 8; the latest representation is in H. H. Bancroft's *Central America*, i. 115, accompanied with a confusion of description. There is a paper on LaCosa and his map in the *Bull. de la Soc. de Géog.* Mai, 1862 p. 298, by M. De la Roquette, who states that M. Walckenaer bought the original at a moderate cost of an ignorant dealer in second-hand objects and immediately brought it to the attention of Humboldt, who used it in his *Examen Critique*. After Walckenaer's death, 27 April, 1852, and at the public sale of his library in Paris in the spring of 1853, the Spanish government secured it for 4200 francs, over the competition of Jomard, who represented the Imperial library of Paris. The latest examination of the LaCosa map is in Harrisse's *Cabot*, pp. 52, 103, 156, where it is said to be preserved in the Naval Museum at Madrid, and to be numbered 553 in its catalogue.

The student must particularly regret the loss of the parchment mappemonde of Jaume Ferrer, which he laid before their Spanish majesties in 1495, as a basis of conference between these monarchs and the

Portuguese crown. Santarem, *Bull. de la Soc. de Géog.* (1847) vii. p. 321, mentions two maps, now lost to us, which may have preceded LaCosa's a little; one is named in a letter from Vera-Cruz (Brazil) dated March 1, 1500, which speaks of its showing South America as a group of four islands; and the other is one preserved at Lisbon, said to have been used by Vasco da Gama, in which South America is a single island. There is also a Portuguese chart preserved in the archives of the Bavarian army at Munich which may have given Ruysch some hints of the Cortereal discoveries in the north, and of Cabral's coursing of the Brazilian coast. Of the Spanish discoveries this chart yields nothing; and its date has been variously fixed from 1502 to 1504. Cf. Kohl's *Discovery of Maine*, p. 174; Peschel's *Geschichte des Zeitalters der Entdeckungen*, p. 331; Kunstmann, *Entdeckung Amerikas*, 69, and his *Atlas*, no. iii.; Lelewel, *Géog. du Moyen Age*, ii. 139. Harrisse, (*Cabot*, p. 161), speaks of a facsimile of it by Otto Progel, being No. 1020 A of the Map Department of the Paris library, and says of Kunstmann's referring it to "Salvat de Pilestrina," that the true author may perhaps be "Salvat [ore] de Palestrina" of Majorca.

The chart of Pedro Reinel of a year or two later (circa 1504 or 1505) is preserved in the Royal library at Munich, and may also possibly have been known to Ruysch. Kunstmann, *Atlas*, gives a facsimile of it, which shows that it traced the Portuguese discoveries only. Kohl, *Discovery of Maine*, 177, gives the northern regions, and refers to J. A. Schmeller's "Über einige ältere handschriftliche Seekarten," in the *Abhandlungen der akad. der Wissenschaften*, iv. 247. Cf. Harrisse, *Cabot*, pp. 141, 162.

Regarding the map of Bartholomew Columbus assigned to 1505, see Humboldt, *Examen Critique*, ii. 85; Kohl, *Die beiden ältesten General-Karten von America*, p. 24; Lelewel, *Géog. du Moyen Age*, ii. 140; Baldelli, *Storia del milione*, i. p. cliii.

When we consider the immense consumption of fish in Europe at this time, owing to the excessive number of fast days in the Romish calendar, we can understand the incentive which took large fleets of fishing vessels to distant seas. The Portuguese, Basques, Bretons, and Normans were often on the northern coasts, and we have evidence of their presence there as early as 1503-4. It would not be at all surprising if some proof of their antedating Columbus and the Cabots should yet appear, for with Greenland understood to be a mere prolongation of Europe, adjacent parts, southerly and westerly might easily have been visited with the same conception in mind. Navarrete, *Coleccion de los Viajes* etc., iii. 41, 46, 176; Eusebius, *Chronicon*, Paris, 1512, p. 172 (cf. *Carter-Brown Catalogue*, i. p. 55); Wytfliet, *Histoire des Indes*, 131; Lescarbot, *Nouvelle France* (1618), p. 228; Biard, *Relation*, etc. (1616), ch. 1; Champlain (1632), p. 9; Charlevoix, *Nouv. France*, i. 4, 14; Estancelin, *Recherches sur les voyages et découvertes des navigateurs normands*; Kohl, *Discovery of Maine*, 188, 201, 203, 205, 280; Bancroft, *United States*, i. 16; Parkman, *Pioneers of France*, p. 171-2; *Mag. of Amer. Hist.*, April, 1882, on the early French voyages; *N. E. Hist. and Geneal. Register*, 1880, p. 229, on the Basques; Kunstmann, *Entdeckung Amerikas*, 69, 125; Peschel, *Geschichte des seitalters*, etc., p. 332; Vitet, *Histoire de la Dieppe*, 51; Harrisse, *Cabot*, p. 271.

That these early fishermen and navigators made charts is most probable, but few traces however of them have been preserved to us.

Among the copies, which M. Morin in 1852-53 made for the Canadian government from the French archives, is one of a map on birch bark, which he

describes as "Carte de l'embouchure du St. Laurent faite et dressée sur une écorce de bois de bouleau, envoyée du Canada par Jehan Denys, 1508." It is so entered in the *Catalogue of books on America*, p. 1614, issued by the Library of the Canadian Parliament at Toronto, in 1838. Harrisse, *Cabot*, p. 250, says that no such map is to be found in the Department of War in Paris, where it is claimed to have been, and a tracing being supplied from Canada, he pronounced the map "absolument apocryphe," having the nomenclature of the last century.

Antedating Ruysch in its engraving is the well-known Waldseemüller map, which is said to have been cut in 1507, though not published till 1513,—and of this further mention will be made under the latter year. Its geography is however so different, that it is hardly possible that Ruysch could have known it, or the material upon which it is based.

Thomassy, *Les Papes géographes*, p. 29, has pointed out various circumstances attending the publication of this edition, among others the joint interest of representatives of various European nations. The three collaborators, Fabricius de Varano, Marc Beneventanus, and Jean Cotta were Italians. Tosinus, the publisher, was French, and Ruysch was German. The edition is known to have been 500 copies. The maps are colored in the Astor copy.

Copies: (1) *Carter-Brown library*. (2) *Library of Congress*. (3) *Astor library*. (4) *Henry C. Murphy library*. (5) *American Geographical Society*.

References: *Carter-Brown Catalogue*, i. no. 33; Brunet, *Manuel*, iv. 954; Panzer, *Annales Typog.*, viii. 248, 26; *Library of Congress Catalogue* (1867), p. 332; Harrisse, *Bibl. Amer. Vetusissima*, no. 56, and *Notes on Columbus*, p. 170; Labanoff, *Catalogue des Cartes*, p. 6; Stevens, *Hist. and Geog. Notes*, 31, and *Nuggets* (1862), 2258 (L3 35.); and *Bibl. Geographica*, no. 3058; *Walckenaer Catalogue*, 2244 (101 francs); Kohl, *Discovery of Maine*, 156; Humboldt, *Examen Critique*, ii. 5, 9; iv. 121; Lelewel, *Géographie du Moyen-âge*, ii. 149; Thomassy, *Les Papes Géographes et la Cartographie du Vatican*, p. 25; Kunstmann, *Entdeckung Amerikas*, p. 136; Van Praet, *Livres sur vëlin*, v. p. 4, with references; Hoffmann, *Bibliographisches Lexicon der gesammten Litteratur der Griechen*, Leipzig, 1845, iii. 317; Raderius, *Commentatio de Cl. Ptolemaeo Geog.*, 52; Fabricius, *Bibl. Graeca*, v. 275; Uriceochea, *Mapoteca Colombiana* (1860), no. 1; Grasse, *Trésor de livres*, v. 500; Henri Harrisse, *Jean et Sébastien Cabot, leur origine et leurs voyages*, Paris, 1882, p. 164.

1511.

Title: *Claudii Ptholemaei Alexandrini Liber Geographia cum tabulis et universalis figura et cum additione locorum quae a recentioribus reperta sunt diligentis cura emendatus et impressus.*

Colophon: *Veneitiis per Jacobum Pentium de leucho Anno Domini M.D.XI. Die xx. Mensis Martii.* (Copied from Van Praet.)

Description: It is edited by Bernard Sylvanus of Eboli, who furnishes an epistle to André Mathieu Aquavivus, and gives annotations. The title is in red. There are 92 leaves folio, on the last 30 of which are the maps. The text is in two columns of 60 lines each.

Maps: There are, it is claimed, 30 wood cut maps; but the number is usually 28, namely, one of the world, ten of Europe, four of Africa, and twelve of Asia, together with a second map of the world. The names and legends are printed in red and blue,

—the earliest instance of registering type within a previously printed cut. They are also the earliest wood-cut maps which show the new discoveries. This art had, however, according to Stevens, been employed for the first time on an American subject in representing a group of Indians, which was probably printed at Augsburg or Nuremberg in 1497-1504; and is given in facsimile in Stevens's *Amer. Bibliographer*, Jan., 1854.

The second mappemonde is the one of interest for its American bearings, and there are reduced facsimiles of it in Lelewel's *Atlas* and in Daly's *Early Cartography*, p. 32. It is a heart-shaped projection, which brings a distorted representation of America on the left-hand edge. It is said to be the first instance of this kind of projection. "Terra sanctae crucis" is the name on South America. "Terra laboratoris" is an island off an imaginary continent, of which "Regalis domus" is a fragment. Thus is shown for the first time in any printed map the North American continent. It is also the earliest positive recognition of the Cortereal discoveries, though possibly Ruysch may have placed them on the Asian shore of his map.

The region about the St. Lawrence Gulf, which Cabot had explored, was visited in 1500-1 by Gaspar Cortereal, who never returned from his second voyage in 1501. The question of his land-fall is examined in Biddle's *Cabot*, ch. xi., and a particular statement is given in Kohl's *Discovery of Maine*, p. 164, etc., where the Portuguese chart of 1504 is held to show that Cortereal thought Newfoundland was the main. This chart is described by Peschel, sketched by Kohl, p. 174, and given in Kunstmann's *Atlas*. Cf. further Ramusio, iii. 417, Galvano, *Discoveries*, p. 95; Navarrete, *Coleccion*, iii. 44; Kunstmann, *Entdeckung Amerikas*, p. 57, etc.; Peschel, *Geschichte des Zeitalters der Entdeckungen*, 331; HARRISSE, *Cabot*, p. 256, who traces the outlines of the subject and furnishes the authorities; Hakluyt, *Westerne Planting*, 203, note; Major, *Prince Henry*, 374; Humboldt, *Examen Critique*, iv. 222, 224, 226; Conway Robinson, *Early Voyages*, ch. xi.; Wieser, *Magalhães-Strasse*, p. 25. Stevens, *Hist. and Geog. Notes*, p. 31, was in error in saying that Valentine Fernandez, in his *Marco Paulo*, 1502, made any reference to Cortereal. Cf. HARRISSE, *Additions*, p. 35.

The only contemporary account of these Cortereal voyages is contained in the *Parsi novamente ritrovati & novo modo da Alberico Vesputio Floritino*, intitolato, published at Vicentia, 1507, and which is assigned sometimes to Alessandro Zorzi (Humboldt's *Examen Critique*) and sometimes to Montalboddo Fracanzano (Brunet, v. 1155, 1158; Sabin, *Dictionary*, xii. 50050; Grässe, *Trésor de livres*; HARRISSE, *Bibl. Amer. Vet.* no. 48, also, no. 109, discusses the authorship, and in *Additions*, no. 26, he makes some further qualifications; also see *Bulletin de la soc. de glog.*, Oct. 1857, p. 312). There are copies of this first edition in the Lenox and Carter-Brown (*Catalogue*, i. no. 30) libraries. The *Bibl. Grenvilliana*, ii. 764, shows a copy; and one in the Beckford sale (no. 186) at London, 1882, bound by Roger Payne, brought £270.

There are unsupported statements of another edition at Vicentia in 1508; but the second authentic edition was printed at Milan in 1508, published Nov. 17, and of this there are copies in the Cincinnati Public, Lenox, Carter-Brown, and Harvard College libraries. Cf. HARRISSE, *Bibl. Amer. Vet.*, no. 55; Davezac, *Waldseemüller*, p. 80; Wieser, *Magalhães-Strasse*, pp. 15, 17. The Beckford copy brought £78, and Quarech offered a copy in 1883 for £45.

A German edition, printed at Hamburg in 1508, is also in the Cincinnati Public Library.

There were other editions as follows:—

1512. — Sabin says only one copy is known in the United States.

1517. — Carter-Brown and Lenox libraries. Leclerc, *Bibl. Amer.* (1878) prices a copy at 1000 francs. HARRISSE, no. 90. Brunet, v. 1158.

1519. — Sabin, xii., 50054; Leclerc, no. 2583, 500 francs. This was published at Milan. There is a copy in the Cincinnati Public Library. Another was sold in London, March, 1883, in the library of "an eminent admiral of Queen Elizabeth's time."

1521. — *Carter-Brown Catalogue*, i. no. 68, with note.

Also the following translations:—

1508. — *Neue unbekante lande*, etc., a German translation by Ruchamer, and said to be the first collection of voyages printed in German. There are copies in the Carter-Brown, and Lenox libraries, and in the Library of Congress. Sabin, xii. 50056; HARRISSE, no. 57.

1508. — *Nye unbekande Lande*, etc., — a translation into Platt-Deutsch from the German version, made by Henning Ghétel of Lubec. Sabin, xii. 50057; HARRISSE, *Additions*, no. 29; *Carter-Brown Catalogue*, i. no. 37. It cost about 1600 marks at the Sobolewski sale. Another copy was sold two years since to an American collector (Mr. Kalbfleisch) for 3000 marks. These two are the only ones known.

1508. — *Itinerariū Portugallēsiū e Lusitania in India*, etc. A Latin version by Archangelo Madriano of Milan. There are copies in the Lenox, Barlow, Brevoort, Carter-Brown and Harvard College libraries, and in the library of Congress. Cf. Sabin, *Dictionary*, xii. 50058; HARRISSE, no. 58; *Carter-Brown Catalogue*, no. 35. Quaritch held a copy in 1873 at £36. Sabin says Bolton Corney's copy sold for £137.

[1515]. — *Sensuyt le Nouveau mode*, etc. — a French version, in the Lenox library. Sabin, xii. no. 50059; HARRISSE, no. 83, and in *Additions*, no. 46, he notes other issues of probably the same date with variations. The Lenox library has also a copy of the same probable date which varies also. Sabin, xii. no. 50061.

1516. — *Le nouveau monde*, etc. In Carter-Brown and Lenox libraries. Sabin, xii. 50062.

[1521]. — *Sensuyt le nouveau mode*, etc. In Harvard College library. HARRISSE, no. 111; Sabin, xii. no. 50063.

[1528]. — *Sensuyt le nouveau monde*, etc. Sabin, xii. no. 50064.

The Cortereal discoveries are also indicated on a portolano, which is inscribed with the date (1511) now under consideration: *Vesconte de maiolo civis Janue composuy. In neapoly de anno 1511. Die xx. January*. This atlas belonged to the Duc d'Alma-mira, and was bought at public sale in Paris, May 7, 1870 (1500 francs) by R. de Heredia of Madrid. The extreme north is "Terra de los Ingres;" south of it is "Terra de Lavorador de rey de portugall;" and ten degrees further south is "Terra de corte reale de rey de portugall — terra de pescaria."

Various other portolanos of Vesconte de Maggiolo are noted by Desimoni ("Elenco di Carte ed Atlanti nautici di autore genovese" in *Giornale Ligustico*, 1875, with the numbers, 24, 25, 27-29, 33-35, 47), by Davezac (*Atlas hydrographique de 1511*, Paris, 1871, p. 8), and by Uzielli (*Elenco*, etc., nos. 159, 161, 166, 167, 181, 182, 191, 193); namely, one dated at Naples, 1512, in the library at Parma; one at Genoa, 1519, in the Royal library at Munich; another, Genoa, 1524, in the Ambrosian library at

Milan; a third of Genoa, 1525, preserved at Parma; another of 1527; a fourth of Genoa, 1535, in the Royal library at Turin; also one in the Cathedral library at Toledo; still another of Genoa, 1547, in the Paris library; and one of 1549 in the public library at Trévise. Cf. HARRISSE, *Cabot*, p. 166, and the Marquis Marcello Staglieno's letter to Desimoni, "Sopra Agostino Noli e Visconte Maggiolo," in *Giornale Ligustico*, Genoa, 1875, p. 71.

In regard to the Ptolemy of 1511, under consideration, "Sylvanus must have seen," says Mr. Brevoort, "a map of Columbus after his third voyage." His cartographical ideas, however, were too boldly conjectural to represent the prevalent geographical knowledge, and he was so far reactionary as to make Engreneland (Greenland) a peninsula of northwestern Europe, going back to the belief which Ruysch had discarded. Cf. the map in Kunstmänn, *Entdeckung Amerikas*, no. 4, and in Lelewel, *Géog. du Moyen Age*.

Copies: (1) *Astor library*, lacks one map. (2) *Carter-Brown library*. (3) *The Henry C. Murphy library*. (4) *James Carson Brevoort*. (5) *S. L. M. Barlow*. (6) *Lenox library*. (7) *Charles H. Kalbfleisch*.

References: Van Praet, *Livres sur vélin*, v. p. 5; vi. 124, with references; *Astor Library Catalogue*, p. 1524; *Carter-Brown Catalogue*, no. 43; *Aspinwall Catalogue*; *Walckenaer Catalogue*, 2245 (24 francs); Brunet, *Manuel*, iv. 954; *Supplément*, ii. 330; Panzer, *Annales typog.*, viii. 405, 552; Leclerc, *Bibl. Amer.*, 471 (500 francs); HARRISSE, *Bibl. Amer. Vet.*, no. 63, with references; Labanoff, *Catalogue des Cartes*, p. 6; Lelewel, *Géog. du Moyen Age*, ii. 151; Uriceochea, *Mapoteca Colombiana* (1860), no. 2; Quaritch, *Catalogue* (1880), p. 2084; Fabricius, *Bibliotheca Græca*, v. 275; Napione, *Del Primo Scopritore*, 87; Zurla, *Sulle Antiche mappe*, cap. xxviii, in his *Di Marco Polo*, ii. 358; *Heber Catalogue*, vii. no. 5233; *Libri Catalogue* (1859), no. 2176; Græsse, *Trésor de livres*, v. 500; Kunstmänn, *Die Entdeckung Amerikas*, 133; Kohl, *Die beiden ältesten general Karten von America*, 33; Harrassowitz, *Rarissima Americana* (no. 91), 1882, no. 2 (220 marks), a copy before the printer's name was added to reverse of title, now the Kalbfleisch copy. Within a few years it has been priced at £20; £16 16s.; £12; £10; 300 marks; 160 marks; 250 francs.

1512.

Title: *Introductio in Claudii Ptholomei cosmographiâ cū longitudinibus et latitudinibus regionum & civitatum celebriorum. C. Epitoma Europe Ence Silviij C. Situs & Distinctio parcium locius Asia per brachia Tauri mōtis ex Asia Pij secundi. C. Particularior Minoris asia descriptio ex eiusdem Pij area. C. Sirie compendiosa descriptio: ex Isidoro C. Africe brevis descriptio: ex paulo orosio. C. Terre sancte et urbis Hierusalem apertior descriptio: fratris Anselmi ordinis Minorum de observantia.* . . .

Colophon: *Impressum cracovie p Florianū ungliariū. Anno dñi. M.D.XI.* (Copied from the *Carter-Brown Catalogue*.)

Description: In quarto, gothic letter. Title and dedication, 2 leaves. Text i-xl leaves. The editor's name is got from the dedication: "Reverendissimo in Christo patri et domino: Joanni dei gracia Episcopo Posnaniensi Ioannes de Stobnicza S. d." On the same page is the following: "Et ne

solī Ptolomeo laborassem, curavi etiam notas facere quasdam partes terre ipsi ptoleomo alijsque vetustioribus ignotas que Amerii vespucij aliorumque lustratione ad nostram noticiam puenere." Upon the reverse of folio v., in the chapter "De meridianis," occurs: "Similiter in occasu ultra africam & europam magna pars terre quam ab Americo eius reptore Americam vocant vulgo autem novus mundus dicitur." Upon the reverse of folio vii. in the chapter "De partibus terre" is this: "Non solū autē pdicte tres ptes nunc sunt lacius lustrate, verum & alia quata pars ab Americo vesputio sagacis ingenii viro inventa est, quam ab ipso Americo eius inventore Amerigem qsi a americi terram sive americi appellari volunt cuius latitudo est sub tota torrida zona," etc.

Hubert H. Bancroft, in his *Central America*, vol. i., mentions the map without having seen it, and errs in saying the name America does not occur in the text; and gives as peculiarities of the 1519 edition what was only copied from this of 1512.

The Carter-Brown copy has 43 leaves. That described by HARRISSE has 42 leaves. The Vienna copies are said to have 42 leaves. Harrassowitz in 1876 (*Catalogue*, no. 29) advertised one, with 46 leaves, but without the map, for 500 marks. The same dealer's *Catalogue*, no. 61, book-number 56, gives a copy of 46 leaves, dated 1511, priced 400 marks, — possibly the same, differently described. These varieties would perhaps indicate three impressions or editions in 1512, unless one of them belongs to the previous year. The two copies in Vienna are said to be without date, and are thought to be of a different edition, or at least of another impression. One is in the Imperial library, and this has the maps; the other is in the City library. Kunstmänn, *Die Entdeckung Amerikas*, p. 130. There is also a copy in the great library at Munich.

Maps: Two in number, one showing America and eastern Asia, the other the old world. They are wood-cuts, roughly executed, and extends from 400 south latitude to 700 north latitude. A triangular-shaped island, without name, cut by the 600 north latitude and in the longitude of Brazil, represents probably the Baccalaos and Terra Corterealis of other maps. A sweep of the ocean separates this from the main continent of North America, now for the first time represented as reaching so high as 500 north. It is about 150 broad (with the Floridian peninsula which juts from its southeast angle), and is connected by a narrow neck, 250 long, with South America. The western coasts of both North and South America are represented by straight lines, joined at different angles, which is probably a way of indicating, by the absence of sinuosities, all definite knowledge. The remarkable part of it is that the lines as angulated for the western coast of South America give a contour to that part of the continent very like what was in time discovered to be the truth.

A full-size facsimile of this map is given in the *Carter-Brown Catalogue*, and reductions made from this facsimile appear in the *Narrative and Critical History of America*, iii. p. 13, and in Judge Daly's *Early Cartography*, p. 32. Müller of Amsterdam also published (five copies only at twenty-five florins) a full-size facsimile, also following the Vienna copy.

Judge Daly, *Early Cartography*, p. 32, says that, as far as he can ascertain, Stobnicza made the earliest attempt in this map to project the spherical surface of the earth upon a plane, — an exemplar of the mode now in use of representing the earth by

two planispheres, one giving the new, the other the old world. Mr. Brevoort qualifies this statement by calling it a first attempt to project a spherical surface on a plane in what might be called a partial and subspherical projection truncated at the poles.

As the Waldseemüller map of 1513 is known to have been engraved as early as 1507, and as there is a certain resemblance in Stobnicza's to it, it seems probable that the Polish geographer had had access to the earlier plate. Cf. Wieser, *Magalhães-Strasse*, p. 11, who speaks of a MS. copy of the western hemisphere of Stobnicza, made by Glareanus (who died in 1563), which is bound up with a copy of Waldseemüller's *Cosmographia Introductio*, belonging to the University library at Munich.

Copies: (1) *Carter-Brown library*. This copy lacks the two maps. It was sold by Otto Harrassowitz of Leipzig to Frederick Müller of Amsterdam in 1873, and thence passed to Mr. Brown, who perfected it with facsimiles of the two maps, taken from one of the Vienna copies. It is probable the copy mentioned by Frederick Müller in his *Books on America*, iii. p. 163, as sold for 240 florins, during the printing of his catalogue.

(2) *The Henry C. Murphy library*, likewise lacking the maps.

References: *Carter-Brown Catalogue*, no. 45; *Harris, Bibl. Amer. Vet.*, no. 69 and 95; *Panzer, Annales Typographici*, vi. p. 454; *Narrative and Critical Hist. of America*, iii. 13; *Kunstmann, Die Entdeckung Amerikas*, 130; *La Revue Germanique*, viii. 205.

1513.

Title: *Claudii Ptolemei . . . Geographia opus novissima traductione e Graecorum archetypis castigatissime pressum: ceteris ante lucubratorum multo praestantius. Pro Prima parte continens 1. Cl. Ptolemei Geographiam per octo libros partitam, ad antiquitatem suam, integre et sine ulla corruptione, etc. . . . Pars Secunda moderniorum lustrationum Vigineti tabulis, veluti supplementum quoddam antiquitatis obsoletae, suo loco quae vel abstrusa, vel erronea videbantur resolutissime pandit. . . .*

Colophon: *Anno Christi Opt. Max. MDXIII. Marcii XII. Pressus hic Ptolemaeus Argentina vigilantissima castigatione, industriaeque Ioannis Schotti urbis indigenae. Regnante Maximiliano Caesare semper Augusto.* (Copied from *Carter-Brown Catalogue*.)

Description: Large folio. Title, one leaf; another unnumbered; Text, 5-60 leaves; index, 15 unnumbered leaves, on the last page of which, "Ad lectorem;" 26 maps on double leaves; second title, 20 maps; "Tractatum," 14 leaves. The Barlow copy has this last section in 15 leaves, without title, but with a headline, "Locorum ac mirabilium mundi descriptio." Page 41 is numbered 34.

The text is Angelo's latin version, corrected by a Greek manuscript, by Matthew Ringman (Philesius). It is published by Jacques Essler and George Ubelin.

Maps: They are wood-cuts, sometimes colored, and forty-seven in number; of these, twenty-seven are old maps, and twenty new ones, the later by Waldseemüller, and showing the modern discoveries. All the old maps are double except the last, which is of a single page, and lettered "Duodecima — Asiae Tabula," which Harris omits, counting only 26; and the 20th of the new maps is also a single-page one,

with shields on the right-hand and bottom margins. Passavant considers that the maps were printed in colors, saying "les armoirées qui entourent les cartes sont même imprimées avec leurs différents émaux."

Two of the newer maps show American discoveries.

1. "Orbis typus universalis iuxta hydrographorum traditionem." On the left is a part of South America, which has no designation; but on the coast is "Caput sanctae crucis," and two islands, "Isabella" and "Spagnolla." Greenland is made the northwest part of Europe, and there is an undefined land, with no western limit, put in a place which seems to represent the Cabot and Cortereal discoveries. A reduced facsimile is given in Ruge's *Geschichte des Zeitalters der Entdeckungen* (1881).

2. "Tabula terre nove." North America is represented as in the Stobnicza map, except that the left-hand edge of the map takes the place of Stobnicza's straight western line. There is nothing of the region about Newfoundland; indeed, it does not extend far enough north to include it. Cuba is an island (Isabella), while some of the names belonging to that island are transferred to the main, indicating some confusion in the maker's mind. The northeast coast of South America is shown. Along the coasts are about 60 names, and this inscription, "Hec terrarum adjacentibus insulis inventa est per Columbū ianuensem ex mandato Regis Castellae."

This map is often called the "Admiral's Map." Some have held it to have been drawn by Columbus; others contend that it follows with alterations his map of 1498, now lost. In the "Ad Lectorem," of the supplement, the following account of Columbus's connection with the map is given: "Charta autem marina quam Hydrographum vocant per Admiralem [believed to be Columbus] quondam serenissi. Portugalie [thought to be an error for Hispaniae] regis Ferdinandi ceteros denique lustratores verissimis pagratibus lustrata, ministerio Renati, dum vixit, nunc pie mortui, Ducis illustriss. Lotharinge liberalius prelographationi tradita est." Cf. Santarem, in *Bull. de la Soc. de Géog.* 1837, vol. viii. p. 171, and in his *Recherches sur Americ Vespuce et ses voyages*, p. 165. The map has also been sometimes ascribed to Cabral and Vespuce. Notwithstanding this inscription, the map so nearly resembles the Stobnicza map (which separates America from Asia) that it may be a question if the draft as Columbus made it, embodying Asian connections, may not have been modified by the Pole's divination. The edge of the map cuts off all western extension, which might otherwise make the decision of this point certain.

Cf. on this map Dr. Franz Wieser's *Magalhães-Strasse*, p. 10.

Facsimiles of the map are given in Varnhagen's *Premier Voyage de Amerigo Vespucci*, and a deduction is given in Stevens's *Hist. and Geog. Notes*, pl. 2, where is also given (pl. 4) a facsimile of the map of 1515 in Gregor Reisch's *Margarita Philosophica*, which seems to be like the Waldseemüller map, except in a few names, and that the latter has a river mouth and deltas on the coast line, west of Cuba, which is supposed to represent the Ganges, and this river is left out by Reisch. The map in the *Margarita* of 1517 is quite different. Varnhagen, however, considers the bay and this three-mouthed river to be the Gulf of Mexico and the Mississippi River. Wieser in his *Magalhães-Strasse*, Innsbruck, 1881, p. 15, mentions a manuscript note-book of Schoner, the globe-maker, which has a sketch which resembles this Waldseemüller-Reisch type. It is preserved in the Hof-bibliothek at Vienna.

Of this popular encyclopædia by Reisch, it may be remarked that it had been issued in different editions since 1503, but with no mention of America in the text, and only now in the map; nor did the text of its geographical section recognize America till the edition of 1535. Cf. Davezac, *Waltsemüller*, 94; HARRISSE, *Bibl. Amer. Vet.*, no. 80-82; KUNSTMANN, *Entdeckung Amerikas*, 130; STEVENS, *Notes*, 52; KOHL, *Die beiden ältesten General-karten von America*, 33.

Waldseemüller, or Hylacomylus, as his name is given in Greek form, who had published the *Cosmographia Introductio* in 1507, wherein the name America was first applied, is said to have prepared this map in that same year, when it was engraved at the expense of Duke Rene II.; but the map remained unpublished till now (1513), probably on account of the duke's death. Lelewel, ii. 143, gives reasons for supposing it to have been on sale in 1507. The representation of it given in H. H. Bancroft's *Central America*, i. 130, leaves out the distinctive three mouths of the Ganges.

The views embodied in this map do not accord with the delineations of two other representations of about the same date.

1. Peter Martyr's map (7½×11 inches) of the Antilles, and adjacent coasts, given in his first decade, styled *Legatio Babylonica*, Seville, 1511. There are copies in the Carter-Brown, Lenox, Murphy, and Barlow libraries, and facsimiles and drawings of it are given in the *Carter-Brown Catalogue*; STEVENS, *Notes*, pl. 4; J. H. Lefroy, *Memorials of the Bermudas*, London, 1877; H. A. Schumacher, *Petrus Martyr*, New York, 1879, and in H. H. Bancroft's *Central America*, i. 127, where the coast line is made continuous in the northwest corner, while in the original it is not so. Quaritch, *Catalogue*, Feb., 1879, no. 11626, pricing a copy with the map at £100, says that copies vary, the leaf with the map being an insertion. There seem to have been two issues, with the map on different folios. In one of them, a second edition, two leaves were reprinted to correct errors, and two new leaves inserted, beside a new title, and it is sometimes claimed that the map belongs to this issue only. Mr. Charles H. Kalbfleisch, of New York, tells me that he now owns this Quaritch copy, and that its title differs from the title as given by Sabin, and in the *Carter-Brown* and *Barlow Catalogues*. "This would make at least three variations in that edition." HARRISSE in his *Additions*, pp. viii. 54, mentions a copy examined at Madrid, which, while it lacks the map, has also the two extra leaves beyond the copy described in his *Bibl. Amer. Vet.*, no. 66. He also says he found a copy in the Colombina library at Seville, which had a MS. map on vellum, showing Hispaniola, and that it seemed to be the work of Columbus himself. *Additions*, p. 56; Brunet, *Manuel*, i. 292.

2. The Lenox globe, preserved in the Lenox library in New York, which has no trace of North America except in an island, which might stand for the Cortereal region. It is supposed to belong to about the years 1510-12, and to be the oldest globe showing any part of the New World. It is drawn in the *Mag. of Amer. Hist.*, Sept., 1879; in the *Encyc. Britannica*, x. 681, and in the *Narrative and Critical Hist. of America*, iii.

Copies: (1) *Astor Library*. (2) *Carter-Brown Library*. (3) *Library of Congress*. (4) *Henry C. Murphy Library*. (5) *Samuel L. M. Barlow*, — the copy seen by HARRISSE, whose description needs some slight corrections. It has two maps in duplicate. (6) *American Antiquarian Society*, — received from

Charles Tappan of Philadelphia in 1834, and bought by him in Paris in 1815. (7) *Charles H. Kalbfleisch*. Bouton of New York advertised a copy in 1876 for \$175.

References: *Carter-Brown Catalogue*, i. no. 47; HARRISSE, *Bibl. Amer. Vet.*, no. 74; Brunet, *Manuel*, iv. 955; *Supplément*, ii. 330; Graesse, *Trésor de Livres*, v. 501; Leclerc, *Bibliotheca Amer.*, no. 472, — 350 francs; Lelewel, *Glog. du Moyen âge*, ii. 141, 157; Humboldt, *Examen Critique*, iv. 109; Varnhagen, *Nouvelles recherches*, 56; Panzer, *Annales Typog.*, vi. 60, 283; *Library of Congress Catalogue*, (1867), p. 332; Davezac, *Martin Hylacomylus Waltsemüller, ses ouvrages et ses Collaborateurs* (1867), p. 141; STEVENS, *Hist. and Geog. Notes*, 13, 14, 51; *Walckenaer Catalogue*, no. 2246; Quaritch, *Catalogue* (1874), no. 9720; (1880), p. 1249; KOHL, *Die beiden ältesten general karten von America*, 33; R. H. Major, *Prince Henry*, 385; Fabricius, *Bibl. Græca*, v. 275; Raderius, *Commentatio*, 56; Hoffmann, *Bibliog. Lexicon*, III. 317; Uricoechea, *Mapoteca Colombiana*, no. 3; Harrassowitz, no. 91, 3. (300 marks), now the Kalbfleisch copy; *Bulletin de la Soc. Glog.*, by Santarem, May, 1847, p. 318; Beaupré, *Recherches sur l'imprim. en Lorraine*, 83; Kunstmann, *Die Entdeckung Amerikas*, 130.

1514.

Title: *In hoc opere haec continentur: Nova translatio primi libri Geographia Cl. Ptolomæ, quæ quidem translatio verbum habet e verbo fideliter expressum, Jo. Wernero Nurenbergensi interprete . . .*

Colophon: *Explicit geographicus hic liber per ipsius Compositorem atque per Conradum Heinsogel, — Maximil. imp. capellanum, et haud mediocrem mathematicum, fideliter emendatus recognitusque nec non a Johanne Stuchs Nurenbergæ impressus anno 1514 prid. Nonas Novembris.* (Copied from Panzer.)

Description: Folio. 68 unnumbered folios.

Maps: None.

Copies:

References: Panzer, *Annales Typog.*, vii. 454, no. 104; Græsse, *Trésor de livres*, v. 501.

1519.

Title: *Introductio in Ptolomei Cosmographiam cum longitudinibus & latitudinibus regionum & civitatum celeberrimum . . .*

Colophon: *Impressum Cracouia per Hieronymum Victorem Calcographum. Anno salutis humane, Millesimo quingentesimo decimo nono. Decimo septimo Kalendas Maii.* (Copied from the *Carter-Brown Catalogue*.)

Description: Quarto. Title and one preliminary leaf; i-xliv. leaves. A second edition of the 1512 edition. Dedicated on reverse of title thus: "Reverendissimo in Christi patri & Domino Ioanni dei gracia Episcopo Posnaniensi Ioannes de Stobnicza Salutem dicit."

Concerning Vesputius it is said: "Et ne soli Ptolomeo laborassem, curavi etiam notas facere quasdam partes terræ ipsi Ptolomeo alijsque vetustioribus ignotas q̄ Americi Vesputii alior. q̄ lustratione ad nostrā noticiā puenere." Again on folio 5, verso: "Similiter in occasu ultra Affricam & Europā magna ps terræ quam ab Americo erreptorē americanā vocat, vulgo aut novus mundus dicit." Once more on folio

7, verso: "Non solū aūt p̄dicte tres p̄tes nūc sunt latius lustrate, verū & alia quarta pars ab Americo Vesputio sagacis ingenii viro, inventa est, quā ab ip̄o Americo eius inventor amerigem quasi americi terram sive america appellari voluit, cui latitudo est sub tota torrida zona."

Maps: None.

Copies:

References: *Carter-Brown Catalogue*, no. 60, (not, however, in the library); *Harrisse, Bibl. Amer. Vet.*, no. 95, describing the British Museum copy; *Vossius, De Natura Artium*, lib. iii. 148.

1520.

Title: *Ptolemaeus auctus restitutus, emaculatus cum tabulis veteribus ac novis.*

Colophon: *Caroli V. Imperii Anno I. vim vi repellere licet* [figure of two dogs fighting] *Ioannes Scotus. Argentorati literis exceptit, 1520.* (Copied from *Harrisse's Additions*, no. 58.)

Description: Large folio. Title, within an ornamented border, with reverse blank. Preface by George Nebelin, with a table of books and chapters, one leaf. Text, 55 leaves, and colophon on reverse of the 55th. Then 47 maps, but without the title-list, text, and "Descriptio Mundi" of the 1513 edition.

Maps: Forty-seven in number, — the same as in the 1513 edition, and apparently from the same blocks, with the large map of the New World, inscribed "Hec terra &c.," known as the "Admiral's map."

Copies: (1) *Carter-Brown Library*; (2) *Henry C. Murphy Library*.

References: *Carter-Brown Catalogue*, nos. 588, 589; *Walckenaer Catalogue*, no. 2247, (45 francs); *Huth Catalogue*, iv. 1199; *Panzer, Annales typog.*, vi. 94, no. 572, with references; *Harrisse, Bibl. Amer. Vet.*, no. 104; *Additions*, no. 58, describing a copy in the Biblioteca Comunale of Verona; *Meusel, Annal. Typ. v. part 2*, p. 188; *Muller, Books on America* (1872), no. 2310; (1875), no. 3245; (1877), no. 2619; *Hoffmann, Bibliog. lexicon*, iii. 319; *Lelewel, Glog. du Moyen Age*, ii. p. 208, App.; *Davezac, Waldseemüller et ses ouvrages*, p. 156; *Quaritch, Catalogue* (1880), p. 2084 (£15 15s).

1522.

Title: *Claudii Ptolomaei . . . opus Geographiae noviter castigatū & emaculatū additiōibus raris et inuisis, necnon cū tabularum in dorso iucunda explanatione . . . Hec bona mente Laurētius Phrisius artis Appollineae doctor & Mathematicarum artium Clientulus, in lucem iussit prodire. Agammemnonis puteoli plurimū delicati.*

Colophon: *Joannes Grieninger civis Argentoraten opera et expensis proprijs id opus insigne, arcis notulis exceptit, Laudabiliq̄ fine perfecit xii. die Marcij Anno M.D.XXII.* (Copied from the *Carter-Brown Catalogue*.)

Description: Large folio. Title in red and black; one unnumbered leaf of preface; folios, 3, 4; then unnumbered, 5, 6; 7–18; 22; two unnumbered; 22 repeated, but not the same text: 37–85; 89 instead of 86; 87–100. "Sphaera in plano" on verso of 99. "Cūplementum," etc., 1 leaf; blank page, but verso has "Finis viii. ultimi Libri." The maps.

Then the "Introductorium" of Frisius, 8 folios, the verso of the last blank.

The preface is by Thomas Aucuparius, in which he lauds Vesputius.

Maps: Forty-nine in number (*Panzer* gives 47), and more elaborate than those of the 1513 editions, being bordered with wood-cuts and vignettes. They closely resemble those of *Waldseemüller*, but are smaller, and have changes and additions. On the reverse of the folio numbered 100, *Frisius* names *Martin Ilacomylus* as the author of the maps. They have descriptions on the reverse, and in that on the third of the African series is the passage about Palestine which *Servetus* was charged with promulgating in the edition of 1535. The fifth of the Asian series is larger than the rest.

The maps showing parts of America are three in number.

1. "Orbis typus Universalis juxta hydrographorum traditionem exactissime, 1522. L. F." On the left edge, South America is seen projecting, and above it the islands *Isabella* and *Spagnola*; but there is no trace of North America. The word **America** appears on the South American Continent, — the first time the name occurs in any map of the Ptolemy series.

This name **America** had already appeared either in print or manuscript upon the following maps or globes:

a. *Varnhagen* in his paper on *Schoner* and *Apianus* refers to two globes, which are undated and in the collection of *Freiherr von Hauslab* at Vienna, — the one (printed) he puts in 1509, the other (manuscript) he assigns to about 1513. *Wieser* in his *Magalhães-Strasse*, p. 27, doubts these dates.

b. *Wieser* places with the printed *Hauslab* globe that of *Schoner*, which he earliest made, and which *Wieser* dates 1515, and calls the two the earliest printed cartographical records of the name. This 1515 globe will be again referred to later.

c. A manuscript draft representing the northern and southern hemispheres, in four broad gores, cut off at the equator, giving eight triangular sections with convex sides. This is the work of *Leonardo da Vinci*, and it is preserved in the Queen's collection at Windsor. This map is facsimiled and described in *Major's* paper in the *Archæologia*, vol. xl., and also considered in his life of *Prince Henry the Navigator*, p. 388. *Major* holds that it represents a stage of the discoveries not shown in any other map, but he wrote in ignorance at that time of the *Stobnicza* map. The *Da Vinci* map shows Newfoundland and Florida both as islands, and a passage to a western sea north of the coast line of South America. The northern continent of America has no existence except in the two islands already named.

The name, America, is on that part of South America which comes within the southern hemisphere. The map is supposed to have been drawn about 1512–14. A projection of the American part of it, in the modern hemispherical style, is given in *Dr. Franz Wieser's Magalhães-Strasse*, Innsbruck, 1881, who gives his reasons for thinking its date should be two years later, in 1515 or 1516. (*Ibid.*, pp. 27, 54, 58.)

d. In a *Catalogue de livres rares et précieux appartenant à M. H. Tross*, 1881, no. xiv., no. 4924, a copy of the *Cosmographia Introductio* is described and given the imprint, *Lugduni, 1514* (though the book is without date), and the title is accompanied by a folding sheet, showing twelve gores of a globe, a facsimile by *S. Pilinski* of the plate (14½ × 7½ inches),

which is said to be in the book. This gives South America as a comparatively narrow continental land, stretching from 12° N. to 41° S. latitude, in a general N.W. and S.E. direction, but with a sweep along the middle sections of the curve towards the east. This continental land bears the words, "America noviter reperta." North America has no western coast, the scale-bar cutting it off. The eastern coast-line runs north, from 18° to about 40° north, when it turns and extends easterly about 5°, then again runs north till the continent ceases at about 58°. Two islands which bear much of the same relation to each other as Cuba and Hispaniola (the latter marked COD), are too high for their true positions, being in 35°. The plate is inscribed: "Universalis cosmographie descriptio tam in solido quem [sic] plano." The *Catalogue* makes this claim: "C'est donc sur une carte essentiellement française, et gravée sur cuivre, que l'on trouve, six ans avant la publication de la carte gravée sur bois, ce nom d'America." It is not unlikely that the date of this edition of the *Cosmographia Introductio* (of which there are two copies in the British Museum) is put too early by a few years, and the map may possibly not belong to it. D'Avezac (*Martin Hylacomylus*, p. 123) thinks this edition was not earlier than 1517, because Robertet, to whom it is dedicated as Bishop of Alby, was not seated in that chair till Nov. 22, 1517. HARRISSE, *Bibl. Amer. Vet.*, no. 63, erred in dating it 1510, as he has recently averred. HARRISSE, *Cabot*, p. 182, ascribes it to Louis Boulenger, and says it was engraved in 1514, but disputes that it was the earliest to have the name America, saying "Une semblable appellation se lit sur la projection, également imprimée en fuseaux, d'un globe terrestre à la date de 1509, qui fait partie de la collection de M. le général de Hauslab, à Vienne. Nous ne savons si c'est une impression française," and cites Davezac, *Allocation à la Société de géographie de Paris*, 20 Oct. 1871, p. 16. The copy in question having passed from Tross to Ellis & White, of London, is now in the library of Charles H. Kalbfleisch, of New York. Mr. F. S. Ellis, in a communication in the *London Athenaeum*, July 16, 1881, claims that this engraved copper plate of 1514 shows Ludovicus Boulengier to have preceded by several years any other copper-plate engraving in France; though this is denied, the engraver of the plates in Breydenbach's *Saintes Peregrinationes de Jerusalem*, Lyons, 1488, being referred to as the earliest in France to use metal.

c. The map engraved on wood, referred to under the previous head, is one by Apianus, which appeared (measuring $11\frac{1}{2} \times 14\frac{1}{2}$ inches) in Camer's edition of Solinus's *Polyhistor* in 1520, and of which facsimiles are given in the *Carter-Brown Catalogue*, i. no. 64 and in Santarem's *Atlas*, besides one on a much reduced scale in Daly's *Early Cartography*. There are copies of Camer's Solinus in the Carter-Brown, Lenox and Amer. Antiq. society's, and Boston Public libraries. Trübner priced a copy in 1876 at £15 15s.; and Weigel in 1877, *Catalogue*, no. 1534, 240 marks. Other recent prices are Leclerc, *Bibl. Amer.* (1881), no. 2686, 500 francs; and Ellis & White's *Catalogue* (1877), £25. The inscription on the map reads: "Tipus orbis universalis juxta Ptolomei Cosmographi traditionem et Americi Vespucii aliorque lustrationes a Petro Apiano Leysnico Elucbrat. An. Do. M.DXX." When the map was reissued in 1530 in the first complete edition of Peter Martyr's *Eight Decades*, this date was changed to "M.DXXX." *Carter-Brown Catalogue*, i. no. 94; HARRISSE, *Bibl. Amer. Vet.*, no. 154. Below the inscription is a heart-shaped projection of a map of the world, which by the extreme curvature of the lines distorts

the new world, which is figured on the extreme left-hand. The attenuated continent of South America is entirely surrounded by water, and on it is this legend: "Anno d. 1497 hac terra cum adiacentibus insulis inventa est par Columbum Ianuensem ex mandato regis castelle AMERICA provincia." North America, with a channel at the isthmus to the western ocean, is shaped much as in the previous map (b.), except that the western shore is defined, and is marked "Ultiora terra incognita." An island, which might stand for the Cabot-Cortereal discovery is marked "Litt. incognitum." Cf. HARRISSE; *Bibl. Amer. Vet.*, no. 108; Kunstmann, *Entdeckung Amerikas*, 134; Kohl, *Die beiden ältesten Karten*, etc., 33; Uricoechea, *Mapoteca Colombiana*, no. 4. The same map also reappeared in the *De Orbis Situ* of Pomponius Mela, 1522, or at least it is found in Cranmer's copy of that book, now in the British Museum, and in the Huth copy, the editor of the *Huth Catalogue*, iv. 1372, erring however in calling it "the earliest known delineation of America with the name mentioned on it." Cf. H. Stevens, *Bibl. Hist.* no. 1272, who says: "This map was no doubt intended for both the Pomponius Mela and the Solinus. These books are uniform in size and after 1520 were issued together, and the map when found at all, is usually bound in the middle, between the two." This 1522 edition of Mela is the second of those having the letter of Vadianus. Leclerc, *Bibl. Amer.*, no. 459; *Carter-Brown Catalogue*, i. no. 590.

There are references to the earliest maps bearing the name of America in HARRISSE's *Notes on Columbus*, p. 172. Santarem, p. 159, gives twenty-five editions of Ptolemy between 1511 and 1584, which do not bear the name America on the map of the new world, and three editions where it does; namely, 1522, 1541 and 1552. Cf. his statement in the *Bulletin de la Soc. de Géog.*, 1837 (viii.), where he has traced down the use of the word America on the maps in his arguments against the claims for Vesputius put forth by Canovai.

Varnhagen privately printed at Vienna in 1872 (61 pp.—100 copies) the essay above referred to, concerning the early maps of America, which discusses the question of the first appearance of that name. It was entitled: *Jo. Schöner et P. Apianus (Benewitz) influencia de um e outro e de varios de seus contemporaneos na adopção do nome America: primeiros globos e primeiros mappamundi com este nome.*

2. "Tabula terre nova." This shows the north-eastern parts of South America, a distorted Gulf of Mexico, with a bay full of islands at the northwest angle of the gulf, and a three-mouthed river adjacent. The coast line from Florida trends north up to 55°, and this North American continent is marked "Parias," which is cut off on the west by the edge of the map. "Isabella" and "Spagnoha," with some smaller islands, form the West Indian group. South America is marked "Terra Nova," with this legend, "Hec terra cum adiacentibus insulis inventa est p. Cristoferum Columbum ianuensem ex mandato Regis Castelle," and a picture representing cannibals feeding on human flesh. This map has an account of Columbus's discoveries in gothic letter, within a square inlaid in the map itself, and also on the reverse pages.

3. "Tab. nova norbegiæ et Gotticæ." This shows the Scandinavian peninsula, with Engroneland, a broad projection north of it, and connected with it. These three maps are repeated in the 1525 edition.

It will be observed that the maps are beginning now to show the results arising from Balboa's discovery of the Pacific in 1513. The severance of the North American continent from Asia was not yet clearly established. Some cartographers unreservedly made its coasts identical with those described by Marco Polo, and were to do so for some years to come, like the monk Franciscus (1526), a manuscript map in the British Museum (1530), the globe of Finæus (1531), the Nancy globe (1540-50), the Ptolemy of 1548, and even so late as 1560 in the map of the Italian Paulo de Furlani. Others expressed their doubt by making the western margin of their maps shores conceal the conditions; others made the Pacific shores uncertain, while they indicated them; while some, as Apianus had done, boldly drew in a western coast, just as Schöner had done in his 1515 globe. The continental extent of South America was universally recognized, and became AMERICA by virtue of its extensive insularity, while its connection with the northern continent—be that Asia or a new region—was still a disputed question, the theory of a western passage somewhere in the neighborhood of the Mexican gulf long lingering, even after a circumnavigation of its shore in 1518 had made it certain that no such passage existed.

The maps or globes with which the chart of Apianus would naturally be compared, because nearly contemporary with it, make evident all these conditions of geographical knowledge:

a. A Portuguese portolano, preserved in the Royal library at Munich, and reproduced in Kunstmann's *Atlas*, pl. iv., and in Stevens's *Notes*, pl. v. places Mahomedan flags on the coasts of Nicaragua and Venezuela, showing the maker's belief in the Asian identification of those regions. Kohl, *Discovery of Maine*, no. x., gives a sketch of part of it, and dates it 1520; but Harris, *Cubot*, p. 167, puts it after Balboa's visit to Panama in 1516-17, and before 1520, because it shows no trace of Magellan's Straits. "Do Lavrador" is inscribed: "Terram istam portugalis viderunt; a tamen non intraverunt." On "Bacal-nao," we read: "Terram istam gaspar corte Regalis portugalis primo invenit," etc. There is a facsimile of the map in the National library at Paris.

b. Johann Schöner (or Schöner, for the custom varies, — b. 1477, d. 1547,) had printed under the patronage of Johann Sayer, in 1515, his *Luculentissima quadam Terra totius Descriptio* (copies are in the Harvard College and Carter-Brown libraries); but it is usually described as without a map. Quaritch has described (*Catalogue*, no. 12408, £25), as bound with other contemporary tracts, a copy which contains "a large wood-cut of his terrestrial globe." This engraving, however, as Mr. Quaritch informs me, is nothing but a picture of a mounted globe, showing the old world only. The Globe of 1515 is described with an engraving in Franz Wieser's *Magalhães-Strasse*, p. 19. It bears on an insular South America the word *America*, and varies little from his well-known later globe, except in the shape of the Antarctic Continent, which in 1515 he calls "Brasilie regio," and in 1520, "Brasilia inferior," and separates it from South America by the straits which Magellan afterward confirmed. It was eighteen years before Münster became the first of the Ptolemaean editors in the editions of 1540 to recognize this southern passage, though it is alleged there was a chart of Martin Behaim which showed it, and had been seen by Magellan, and the information must have been current by which Da Vinci in 1512-15 was induced to delineate the broad expanse of

water which separated South America from the Antarctic land. Wieser, p. 49, 52; Ramusio, *Navigazioni et Viaggi*, i. 354; Peschel, *Gesch. des Zeitalters der Entdeckungen*, p. 616.

The history of the prevalence of a belief in a great south-polar continent is traced in Wieser's *Magalhães-Strasse*, p. 59, and he says the earliest map to give it the name of "Austral-land," or "Terra Australis," is the Orontius Finæus map of 1531, to be later described, and of this Wieser gives a projection of the ordinary polar-hemispheric kind. Cf. also Santarem, *Hist. de la Cartog.*, ii. 277, on the notions of a large Southern Continent which long prevailed.

Two copies of this 1515 globe have been, as Wieser says, long known, but not recognized. One is at Frankfurt on the Maine, and Jomard in his *Monuments de la Géographie*, nos. 15 and 16, has given a drawing of it, simply calling it a "Globe terrestre de la 1^{re} moitié du xvi^e siècle." Cf. also Kohl, *Generalkarten von America*, p. 33, and his *Discovery of Maine*, p. 159, where it is erroneously said to bear the date of 1520; also *Encyc. Britannica*, x. 681, and Von Richthofen's *China*, p. 641, who places it later than Magellan's discovery. Cf. *Narrative and Critical Hist. of America*, iii., and *Royal Geog. Soc. Journal*, xviii. 45. The other is in the Militär-Bibliothek at Weimar, and is the one Humboldt in his *Examen Critique*, and in his introduction to Ghillany's *Ritter Behaim*, compares with the 1520 Globe of Schöner, and the Mappemonde of 1546 in Hontes's *Rudimentorum Cosmographicarum libri tres* (1578), which is in fact essentially the same as Apianus's map (1520) in Camer's *Solinus*, and it had first appeared in the Cracow (1534) edition of Hontes's book. Wieser's drawing of the Globe is based on Jomard's facsimile, rectified by the Weimar copy, and in his text he rehearses the evidence of its being made by Schöner to accompany his *Luculentissima Descriptio*.

In 1520 Schöner made another globe, which is preserved in the library at Nuremberg. This shows South America as a continent, disconnected from North America, which resembles closely the kind of delineation of which Stobnicza was the type, with the insular Cortereal as put down by the Polish geographer. His error was in making a western passage between the two Americas as had been done in the Lenox and Frankfurt globes, and in those of the Hauslab collection already referred to, and in the maps of Da Vinci (1512-13), Apianus (1522), and Grynaeus (1532).

The earliest reproduction of the American parts of this globe known to me appeared in the *Jahresbericht der technischen Anstalten in Nürnberg für 1842*; and in the same year Dr. Ghillany, the same writer, issued his *Erdglobus von Behaim vom Jahre 1492 und der des Joh. Schöner von 1520*, with plates of the two globes. Humboldt examines it in his *Examen Critique*, ii. 28, and again in his appendix to Ghillany's *Ritter Behaim*, where the best drawing of it is given. There are other representations in Santarem's *Atlas*, Lelewel's *Géog. du Moyen-âge*, Kohl's *Discovery of Maine*, Wieser's *Magalhães-Strasse*, pl. no. 1, Harper's Monthly, Feb., 1871, in connection with Maury's paper on the claims of Columbus, and in H. H. Bancroft's *Central America*, i. 137, 208, who falls into an error in saying that "this is the first drawing to represent the regions of the new world as distinct, although not distant, from the Asiatic coast." Mr. Bancroft's error in this respect as in others arises from his failure of access to some important books, which do not seem to be in the libraries of the Pacific coast. He acknowledges his unacquaintance with the Stobnicza map, which could

have set him right in this point, to say nothing of the map already mentioned in the *Tross Catalogue*, likewise unknown to him.

Kohl also gives the American parts in his *Geschichte des Entdeckungsreisen zur Magellan's-Strasse*, Berlin, 1877, p. 8.

Wieser, *Magalhães-Strasse* (p. 75) points out a globe of 1523 no longer known, and (p. 77) he recognizes a globe preserved in the Militär-Bibliothek at Weimar as another production of the same globe-maker, in elucidation of which Schöner in 1533 published his *Opusculum Geographicum*. In this work Schöner claimed that "Bachalaos, called from a new kind of fish there, had been discovered to be continuous with Upper India"; and he charges Vesputius with naming the new lands after himself. The southern hemisphere of this 1533 globe is given in Wieser's pl. v. It bears a strong resemblance to the Orontius Finæus map of 1531, to be mentioned under the head of the Ptolemy of 1540.

Schöner in 1523 printed his *De nuper . . . repertis insulis ac regionibus*, of which tract copies in the Hof-bibliothek at Vienna and in the British Museum are the only ones known. Varnhagen in 1872 used the Vienna copy in producing a facsimile "Réimpression fidèle d'une lettre de Jean Schöner écrite en 1523" (40 copies). Cf. Wieser, p. 116; HARRISSE, *Bibl. Amer. Vet., Additions*, p. 168, — there seeming to have been a second edition of Schöner's tract, of which Wieser (p. 118) gives the latin text.

c. Bordone's globe of 1521, of which a very small reduction is given in Lelewel's *Atlas*. Bordone in his maps employed the method "Sous la rose des vents," which was now being disused. He began his work in 1521, and, dying in 1531, the edition of 1534 is posthumous; but all the maps are considered to be of 1521 or earlier. See *post*, sub anno 1540.

Of this period (1519) is also the Atlas of Visconte Maggiolo, preserved in the Royal library of Munich, which is inscribed: "Vesconte de Maiollo civis Janue Composuy hanc cartam in Janua de anno Domini 1519." Cf. Kunstmann, *Die Entdeckung Americas*, 76, 135, 136; and *atlas*, pl. v.; Kohl, *Die beiden Generalkarten*, etc., 30, 146; Desimoni in *Giornale Ligustico*, p. 54.

There is noted in the Kohl collection (Dept. of State at Washington) a general map of America of 1522, which that writer ascribes to Th. Ancuparius.

Copies: (1) *Harvard College Library*, — has marginal notes in an old hand. (2) *The Henry C. Murphy Library*. (3) *Samuel L. M. Barlow*, — the copy seen by HARRISSE, who makes some minor errors in describing it. (4) *Carter-Brown library*.

References: *Carter-Brown Catalogue*, no. 72; HARRISSE, *Bibl. Amer. Vet.*, no. 117; *Additions*, p. 90; Leclerc, *Bibl. Americana* (1867), (560 francs), and (1878) no. 473 (300 francs); Panzer, *Annales typog.*, vi. 97, no. 611, with references; *Huth Catalogue*, iv. 1199; Brunet, *Supplément*, ii. 330; *Walckenaer Catalogue*, 2248 (17 francs); Graesse, *Trésor de livres*, v. 501; Fabricius, *Bibl. Græca*, v. 275; Raddellius, *Commentatio*, etc., 58; Humboldt, *Examen Critique*, iv. 119; Napione, *Del Primo Scopritore*, 87; Lelewel, *Géog. du Moyen-Age*, ii. 208; Hoffmann, *Bibliog. Lexicon*, iii. 319; Götte, *Merkw. d. Dresden, Bibl.* i. 316.

1524.

An edition (Nuremberg) is cited by Santarem in *Bull. de la soc. de Géog.*, 1837 (viii.), p. 175.

1525.

Title: *Claudii Ptolemaei Geographicae Enarrationis Libri Octo Bilibaldo Pirckeymhero Interprete Annotationes Ioannis De Regiomonte in errores commissos a Jacobo Angelo in translatione sua.*

Colophon on recto of the second no. 28: *Argentoragi [sic, should be Argentorati, i.e. Strasbourg] Iohannes Grieningerus, communibus Iohannis Koberger impensis excudebat, Anno a Christi Natiuitate M.D.XXV. Tertio Kal' Apriles.*

(Copied from a transcript of the title in the Prime copy, by favor of Dr. J. Hammond Trumbull, and compared with the Boston Public Library copy.)

Description: Title in a composite wood-cut border (same as 1522 edition); one page; dedication begins on verso of title, which is marked folio 1, and is continued on folio 2, and the enumeration covering text ends on recto of 82, its verso being blank, but 6, 33, 40, 47 are numbered by mistake respectively 12, 32, 41, 48; 69 has a sphere on the verso; 70 is unnumbered, verso blank; 71 is 72; Regiomontanus's annotations, 14 unnumbered leaves, with colophon on recto of the last, and verso blank; in a wood-cut border the following title: "Index Ptolemaei copiosus admodum, nec antea visus cum explanatione locor. quorūda ad nostram ætatem, etc.", 34 leaves, being sig. a to f, in sixes, except the last which is in fours, and on the verso of the last leaf (f. 4): "Errata passim emendanda;" *Tabulæ*, — sig. 1-50, in twos.

Brunet says: "J. Huttichius passe pour avoir dirigé cette édition."

The maps do not have the ornamented scroll at the top belonging to those of the 1522 edition, or have a different one; and the text has fewer wood cuts.

Maps: Fifty in number, engraved on wood; with wood-cut figures and borders on the reverse. Those in the Astor copy are colored. They are sometimes made to be forty-nine in number, because one sheet has two on it; viz., no. 46, fourth page. They are numbered: 1-26 (10 of Europe, 4 of Africa, 12 of Asia); no. 27 is The ancient world; general Ptolemean maps; 28-50, but no. 35 is numbered 36 by error; nos. 46 and 47 are on one sheet; and no. 50 is numbered on the right.

The maps (with one exception, no. 49) are the same as in the 1522 edition, but vary a little in order, and no. 5 of the Asian series is (in the Boston Public Library copy at least) a smaller map than the corresponding one in the 1522 edition (Harvard College copy) and matches the rest.

The maps showing America are these: —

1. "Oceani occidentalis seu Terre Noue Tabula" (no. 28), which is the same as the "Tabula Ter. novæ" of the 1522 edition.

2. "Gronlandiæ et Russiæ" (no. 49) is not in the 1522 edition, and represents Gronlanda [sic] as a long, narrow peninsula, running S.W. from the extreme N.W. of Europe. It also shows on the western edge projecting land in the latitude of Ireland, and in the southwest corner a larger land, standing for South America. It follows the *mappe monde* in the 1513 edition, in these respects.

3. "Orbis. typus. universalis. Iuxta. Hydrographorum. Traditionem. Exactissime. Depicta. 1522. L. F." The 1522 map of Laurentius Frisius, the date unchanged, — being the last in the book.

Copies: (1) *Library of Congress*. (2) *Astor Library*. (3) *New York Historical Society*. (4) *Boston Public Library*, shelf-no. 2280.7. (5) *Baltimore Mercantile Library*, bound in the original oak boards.

(6) *The Henry C. Murphy Library*. (7) *Carter-Brown Library*. (8) *William C. Prime* (New York). (9) *Charles H. Kalbfleisch*.

Quaritch has of late years priced copies at £7 7s. and £10 10s. A copy was sold in New York, Nov. 21, 1876. Muller prices copies at 60 and 90 Dutch florins.

References: *Boston Public Library Catalogue*, B. H. Supplement, p. 512; *Carter-Brown Catalogue*, i. no. 87; *Harrissee, Bibl. Amer. Vet.*, no. 136, with some errors of description; *Walckenaer Catalogue*, no. 2249 (40 francs); *Brunet, Manuel*, iv. 955; *Supplément*, ii. 330; *Library of Congress Catalogue* (1871), p. 435; *Panzer, Annales typog.*, vi. 107, no. 698, with references; *Leclerc, Bibl. Amer.*, no. 474 (200 francs); *Muller, Books on America* (1875), no. 3246; (1877) no. 2620; *Puttick and Simpson's Catalogue* (1872), no. 701; *Quaritch, Catalogue* (1880), p. 1154 (£10 10s.); *Græsse, Trésor de livres*, v. 501; *Hoffmann, Lexicon*, iii. 319; *Aspinwall Catalogue*, no. 6; *Fabricius, Bibl. Græca*, v. 276.

1527.

An edition (Paris) is cited by Santarem in *Bull. de la soc. de Géog.*, 1837 (viii.), p. 175.

1528.

An edition (Venice) is cited by Santarem in *Bull. de la soc. de Géog.*, 1837 (viii.), p. 175.

1532.

Title: *Ptolomei Tabula geographica cum Eandau annotationibus egregie illustratae.*

Colophon: *Argentorati apud Petrum Opilionem. M.D.XXXII.* (Copied from *Brunet, Supplément.*)

Description: Folio. Title; 110 leaves numbered; 8 maps; 2 unnumbered leaves.

Maps: Eight in number, each occupying two pages.

Copies:

References: *Brunet, Supplément*, ii. 330.

1533.

Title: *De geographia libri octo (græce), summa cum vigilantia excusi (dicat Erasmus Theobaldo Feticchio medico) Basilie (Hier. Frobenius et Nic. Episcopius) anno 1533.* (Copied from *Brunet*, — *Panzer* gives the Greek title.)

Description: The earliest edition in Greek. Quarto. Four folios; then 542 pages, and colophon.

Maps: None.

Copies: (1) *The Henry C. Murphy Library*.

References: *Walckenaer Catalogue*, no. 2230 (25 francs); *Brunet, Manuel*, iv. 950; *Sunderland Catalogue*, iv. 10350; *Panzer, Annales typog.*, vi. 293, no. 910, with references. *Fabricius, Bibl. Græca*, v. 276.

1535.

Title: *Claudii Ptolemai Geographica enarrationis libri octo. Ex Bilibaldi Perckeymeri tralatione, sed ad Græca & prisca exemplaria a Michaële Villanovano iam primum recogniti, Adjecta insuper ab eodem scholia quibus exoleta urbium nomina ad nostri seculi morē exponuntur. Quinquaginta illa quoque cum ve-*

terum tum recentium tabula adnectuntur variique; incolentium ritus & mores explicantur. [Woodcut, with words: *Usus me genuit.*] *Lugduni ex officina Melchioris et Gasparis Trechsel fratrum. M.D.XXXV.*

On the reverse of title: *Michael Villanovanus lectori. S. Amplissimo Domino Sebastiano episcopo Brixienti, Bilibaldus Perckeymerus.* (Copied from the *Carter-Brown Catalogue.*)

Description: Folio. Title; one unnumbered leaf; folios 5–149; table 1 page, reverse blank; 50 maps; index, 38 leaves.

The part this book played in the condemnation of its editor, Servetus, has given it fame; and since many copies were burnt by order of Calvin, it has become rare. In connection with a map of the Holy land in the second series of maps was a statement that it was not such a fertile land as was generally believed, since modern travellers reported it barren. The careless virulence of his persecutor is evinced by the fact that this paragraph, so objectionable to him, was simply reproduced from the editions of 1522 and 1525. The next edition (1541), however, omitted it.

Maps: Fifty in number, wood-cuts, and generally in imitation of those in the Waldseemüller series. They are the 27 Ptolemean maps; the Admiral's map; and the 22 new maps, which include two maps of the world, the 17 modern maps of the 1513–20 editions, the map of Lorraine, and two new Asian maps. The map after No. 46 is a half sheet.

Those referring to America are:—

1. On obverse of folio 28: "Tabula terre nova." The same as in the 1522 and 1525 edition. Cf. *Harrissee, Bibl. Amer. Vet.* no. 210.

2. On folio 50: "Orbus typus universalis juxta hydrographorum traditionem exactissime depicta. 1522. L. F." The same as in the 1522 and 1525 edition.

To the account of Columbus in the earlier editions, Servetus adds a few words deprecating the putting the claims of Vesputius above those of Columbus.

3. "Tabula nova Norbergæ," etc. See the 1522 and 1525 editions.

Copies: (1) *Boston Public Library* (shelf-mark, 4140.4). (2) *Astor Library* (two copies). (3) *College of New Jersey*, — wants two leaves and five maps; but has the American map; is inscribed "Ex libris Jomard." (4) *Carter-Brown Library*. (5) *The Henry C. Murphy Library*. (6) *Samuel L. M. Barlow*.

References: *Boston Public Library Catalogue*, *Bates Hall Supplement*, p. 512; *Astor Library Catalogue*; *Carter-Brown Catalogue*, no. 115; *Harrissee, Bibl. Amer. Vet.*, no. 210, describing the British Museum copy; *Brunet, Manuel*, iv. 955; *Supplément*, ii. 330; *Chatworth Catalogue*, iii. 268; *LeClerc, Bibl. Americana*, no. 475 (200 francs); *Tross, Catalogue* (1875), (150 francs); *Panzer, Annales typog.*, vii. 365, no. 776, with references; *Quaritch, Catalogue* (1880), no. 2084 (£12 12s); *Walckenaer Catalogue*, no. 2250 (80 francs); *Fabricius, Bibl. Græca*, v. 276; *Hoffmann, Lexicon*, iii. 319; *Labanoff Catalogue*, no. 23; *Muller, Catalogue* (1875), no. 3248; *Græsse, Trésor de livres*, v. 501, with references; *Raidelius, Commentatio de Cl. Ptol. geog.*, 61; *Humboldt, Examen Critique*, iv. 137; *Willis, Servetus and Calvin*, ch. viii.; *Tollin, "Michel Servet als geograph."* in *Zeitschrift der Gesellschaft für Erdkunde*, 1875, p. 182.

Michael de la Roche, *New memoirs of literature*, London, 1725, vol. i., containing, p. 26, "An account of a very rare edition of Ptolemy's geography, pub-

lished by Michael Servetus in the year 1535," written (see p. 410) by Le Courayer.

* * Harrisse, *Bibl. Amer. Vet.*, p. 344, enumerates various works on Servetus and the causes of his martyrdom.

1538.

An edition is cited by Santarem in *Bull. de la soc. de Glog.*, 1837 (viii.), p. 175, but I suppose it to be the astronomical, not the geographical, treatise.

1540.

Title: *Claudii Ptolemæi Alexandrini libri viii. de Geographia e Graeco denuo deducti. . . Joannes Novio magi [J. Bronchorst] opera. Coloniae, excudebat J. Ruremondanus, Anno 1540, mense Martio.*

Description: Latin version of the original Greek, without modern additions. Octavo. Eight preliminary leaves; 388 pp., and 49 leaves for index.

Maps: none.

References: *Walckenaer Catalogue*, no. 2252; *Grasse, Trésor de livres*, v. 501; *Brunet, Manuel*, iv. 955.

1540.

Title: *Geographia universalis, vetus, et nova, complectens Claudii Ptolemæi Alexandrini enarrationes Libros VIII. Quorum primus nova translatione Pirckheimheri & accessione commentarioli illustrior quâdam hactenus fuerit, redditus est. . . Adiecta sunt huic posteriori editioni novæ quadam tabula, quæ hactenus apud nullam. Ptolemaicam impressuram visæ sunt. Basileæ, apud Henricum Petrum. Mense Martio Anno M.D.XL.* (Copied from the *Carter-Brown Catalogue*.)

Description: Folio. Title, and 9 preliminary leaves, including six of index; 17 unnumbered leaves; one blank leaf; text, 1-154 pages; 48 maps; appendix, 157-195 pp. The device of H. Petrus on the reverse of last leaf. The maps sometimes follow the appendix. Edited by Sebastian Münster.

Maps: Forty-eight wood-cut maps as follows: *Mappemonde*; nos. 2-28, the ancient maps, redesigned by Münster; twenty modern maps, "novæ Tabulæ," designed by Münster, and numbered i-xx.

Münster was born in 1489, and died of the plague in 1552. In 1532 he had already contributed a map of the world, and had described it in the *Novus Orbis*, which was published at Basle in 1532, and is usually ascribed to Grynaeus, because his name is signed to the preface. Münster's map, however, is not often found in the book. The *Bibliotheca Grenvilliana*, even, says: "No map has ever been seen in this edition." Muller says that of twenty copies of the *Novus Orbis*, which he had examined, only one had the map. The copies in the Harvard College [1354.28] and Boston Public [4160.8] libraries lack the map. Those in the *Carter-Brown Catalogue*, no. 101 and Barlow (Harrisse, *Bibl. Amer. Vet.*, no. 171) libraries have the map. There are other copies of the book in the Lenox and Astor libraries. Rich, in 1832, held a copy with the map at £1 1s.; Quaritch and Leclerc (*Bibl. Amer.*, no. 411) have of late years priced copies with the map at £5, £3 10s., and 125 francs. Muller, *Books on America* (1872), 1845; (1875); (1877) no. 1301, has held copies with the map at 70, 75, 58 florins. Muller has also issued a facsimile of the 1532 map (10 copies, at 15 florins); and reproductions of it are given in Stevens, *Notes*, pl. iv. no. 4, and *Narrative*

and *Critical Hist. of America*, iii. See further on the book, Ternaux, *Bibl. Américaine*, no. 38; and Sabin, *Dictionary*, ix. 34, 100. The map, however, was used in the 1537 and 1555 editions of the *Novus Orbis* with only in some copies a change in the size of the type used for the names.

Münster's 1532 map closely resembles the Schoner and Frankfort globes, in the shape of North America and in the placing of Corticalis, as well as the severance of South America by a strait. This northern land is called "Terre de Cuba." The southern continent is drawn broad in the northerly part, but suddenly contracts, making the lower portion long and narrow, and it bears these words: "Parias," "Canibali," "America," "Terra Nova," "Prisilia." In some parts of the map the designation of countries is printed from type inserted in the block, and the size of these type varies in some copies.

This 1532 map, being so much behind the current knowledge of America, was not altogether creditable to Münster; and in 1540, he undertook the editing of the edition of Ptolemy now under consideration, aiming to correct the erroneous views of Waldseemüller, which had largely prevailed since the edition of 1513.

In this 1540 edition of Ptolemy he placed the following new maps, which are of interest in the history of American Cartography.

1. "Typus universalis." An elliptical map, with America on the left, except that the western part of Mexico, called "Temistitan" is carried to the Asia side of the map. In the north a narrow neck, extending west, widens into "Islandia," with "Thyle," an island south of it; and still further westward it becomes "Terra nova sine Bacalhos." South of this is a strait, marked "per hoc fretū iter patet ad Molucas." The northern boundary of the western end of this strait is India Superior. South of it, opposite Bacalhos, is a triangular land, without name, but with an off-lying island,—"Corterael." Its western shore is washed by a Verrazano Sea, which nearly severs it from "Terra Florida." South America is so vaguely drawn on its western bounds that its connection with North America is uncertain. It is called "America, seu insula Brasiliæ." Magellan's Straits separates it from the antarctic land; and these straits are for the first time shown in any Ptolemeian map.

We have knowledge that in 1517 Magellan and his friend, the astronomer, Faleiro, made "a globe on which they depicted America and the great oceans between America and the old world,"—a production no longer known. The map of his straits, which a few years later he made when he sailed through them, is likewise unknown to modern inquirers. (Dr. Kohl's Paper on *Lost Maps*.) The delineation of the straits in 1515 has already been mentioned under the head of the Ptolemy of 1522. The *Magellan's-Strasse* of Kohl (Berlin, 1877) and the *Magalhães-Strasse* of Wieser (Innsbruck, 1881) are both thorough treatises on the history of the discovery and exploration of the Straits.

2. "Novae insulae xxvi nova tabula." This is no. 45 of the whole, or no. 17 of the twenty new maps, showing both Americas. Kohl in delineating it (*Discovery of Maine*, pl. xv^a), dates it by error, 1530; and Hubert H. Bancroft, *History of the Pacific States*, i., copies the error. A similar gulf, from the northwest, projects down into North America as in the other map. On South America is this legend: "Insula Atlantica quam vocant Brasiliæ & Americam."

Cf. Murphy's *Verrazano*, p. 104. There are other

drafts of the map in the *Narrative and Critical Hist. of America*, iii., and in H. H. Bancroft's *Central America*, i. 147.

This map, *Novus Orbis*, beside appearing in several later editions of Ptolemy, also served Münster in more than one edition of his own *Cosmographia* (1544, 1555, etc.), and Kohl, *Discovery of Maine*, p. 296, states that he found the same plate used here and there for more than fifty years. It appears in the Harvard College copy of the edition of 1554 of Münster's *Cosmographia Universalis Lib. VI.*, being no. 14 of the series, with a Latin title on the recto of the first half of the folded sheet, this caption being on the map itself,—"Tabula nouarum Insularum [sic], quas diuersis respectibus Occidentales & Indianas uocant." On the South American Continent, the words "Die Nüw Welt" appear in large type,—the only German on the map, an indication of its use in the editions in that language. Harvard College library has also, bound separately, the same map, with no variations, except that the caption over the top of the map is in German, and so is the inscription on the outside, as folded. It is not numbered, and may have been issued separately as well as in German editions of the *Cosmographia*.

It is of interest now to inquire what explorations had been followed, and what maps had been produced since the edition of 1522, which could have been of assistance to Münster in drafting these new theories of the general contour of the American continent.

The distinctive feature of Münster's map—the sea which nearly severs North America—is traced to the explorations of Giovanni de Verrazzano in 1524. Into the questions in dispute, which were raised by Buckingham Smith, and have been pressed by Henry C. Murphy against the general credence imposed in these explorations, it is not necessary to enter here. The belief in the story first found public cartographical expression in the map under consideration; and Münster may possibly have used Verrazzano's charts, which are now lost. Ortelius in his catalogue of maps does not name them. It is supposed that Lok used them in the map known by his name, which is given in Hakluyt's *Divers Voyages* of 1582, where the western sea is called after Verrazzano, and Lok's map is reproduced in the *Carter-Brown Catalogue*, i. 288, in the Hakluyt's Society's reprint of the *Divers Voyages*, in Kohl's *Discovery of Maine*, p. 290, and in the *Narrative and Critical Hist. of America*, iii. Verrazzano's name is dropped from all the maps after 1583.

The validity of the claims for Giovanni de Verrazzano largely rests, however, on a planisphere of about 1529, made by Hieronimus de Verrazzano, measuring 51 X 102 inches, which was discovered in the Collegio Romano de Propaganda Fide in the Museo Borgiano, at Rome. It is not certain that the map is an original, and it may be a copy. It was mentioned by Von Murr in his *Behaim*, Gotha, 1801, p. 28, referring to a letter of Cardinal Borgia of Jan. 31, 1795, regarding it. It was again mentioned in Millin's *Magasin Encyclopédique*, vol. lxxviii (1807). General attention was first directed to it in 1852 in Thomassy's *Les Papes Géographes*, in the *Nouvelles Annales des Voyages*, Paris, iii. (1853) p. 269, and printed separately the same year, pp. 112. Two imperfect photographs of the map were procured for the American Geographical Society in 1871, and it is described by Mr. Brevoort in their *Journal*, 1873. Buckingham Smith had translated the French account of it in the *Historical Magazine*, October, 1866. Reductions of it are given in C. P. Daly's *Early Car-*

tography, much reduced, p. 34; in the opposing monographs of Brevoort, *Verrazzano the Navigator* (1874), and Murphy, *The Voyage of Verrazzano* (1875), both describing it. Brevoort also gives an enlarged section of it, and for comparison the same coast from the Spanish Mappamundi of 1527, following Kohl's facsimile in his *Karten von Amerika*. Brevoort is also of the opinion that Hier. Verrazzano got his western sea from Oviedo's *Somario* of 1526. See Brevoort's *Verrazzano*, p. 5. Dr. DeCosta in the *Mag. of Amer. Hist.*, Aug. 1878, gives a reduction from Mr. Murphy's engraving, and an enlarged section in which he inserted the names, which were obscure in the photograph from which Mr. Murphy worked. Dr. DeCosta repeats his various maps and sums up the subject in his *Verrazzano the Explorer*, New York, 1881. He has since added to this edition a revision of the Verrazzano map, based upon Desimoni's criticism of his reading of the names on the coast. Cf. also Harris, *Cabot*, p. 180.

The globe of Euphrosynus Ulpius, 1542, found by Buckingham Smith in Spain, and now in the cabinet of the New York Historical Society, shows Verrazzano's discoveries. See Harris, no. 291; and Charles Deane's notes in Hakluyt's *Western Planting*, p. 218.

The same midway narrowing of North America by a western sea was drawn in manuscript, before Münster engraved it, in the great portolano of Baptista Agnese in 1536, and Mr. Brevoort thinks Münster must have copied Agnese. Harris, *Cabot*, p. 188, gives a considerable essay on the cartographical works of Agnese, who lived at Venice from 1536 to 1564, and from whom we have various portolanos, signed and dated in the following years: 1536, 1543, 1544, 1545, 1553-1555, 1559, and 1564,—of which mention will be made successively further on. Of that of 1536, which now concerns us, there are said to be copies at Munich and at Dresden. Another copy in the British Museum (MSS. no. 10927) is marked *Baptista agnessius ianuensis, fecit venetijs, 1536, die 13 October*; that in the Bodleian is dated 1536 *die Martii*. It is an atlas of a dozen leaves. A similar configuration belongs to an atlas preserved at Turin (about 1530-1540), of which Wutke gives a sketch in plate vii. of the *Jahresbericht des Vereins für Erdkunde in Dresden*, 1870.

The Agnese map of 1536 is included in the Kohl Collection of the State Department, and is sketched by Kohl (*Discovery of Maine*, 292), who gives on a single plate (p. 296), four other maps, indicating the same features of Verrazzano's influence. One of these is the *Novus Orbis* of 1540 by Münster (which Kohl misdates). Another is a map ascribed to Ruscelli (1544) to be described later. A third is an anonymous portolano (1536) preserved in the Bodleian, which represents a narrow continent running northeast and southwest, with a northerly passage, perhaps corresponding to the St. Lawrence River. The last is a map by the Portuguese, Diego Homem, preserved in the British Museum, and probably of the same year with the *Novus Orbis* (1540), with a similar northern passage.

Mr. Murphy in his *Voyage of Verrazzano*, p. 106, denies that these four maps show any dependence upon the chart of Verrazzano. De Costa, in his *Verrazzano the Explorer*, argues for the decided influence of that map on later cartography. The latest word upon the subject is said by Mr. J. Carson Brevoort, in the *Mag. of Amer. Hist.*, Feb. 1882, p. 123, and July, 1882, p. 481.

It is claimed by Mr. Murphy and the sceptics that the so-called letter of Verrazzano, describing his

voyage, was really compiled upon the reports of the voyage of the Portuguese Estevan Gomez, who, as one of the results of the congress of Badajos, was sent in 1525 to explore the coast of what is now the United States. There are two maps, thought by some to have grown out of the Gomez voyage, though that of 1527 has no mention of Gomez, and that of 1529 has a legend along the New England coast, depreciating the importance of the discoveries of Gomez.

The first is an anonymous parchment chart (1527), preserved in the Grand Ducal library at Weimar, which is described and in part depicted by Kohl in his *Die beiden ältesten Generalkarten von Amerika*, Wiemar, 1860; and this same commentator gives a smaller section in his *Discovery of Maine*. Cf. Humboldt, *Examen Critique*, ii. 184, and his preface to Ghillany's *Ritter Behaim*; HARRISSE, *Cabot*, pp. 69, 172; Murr, *Memorabilia bibliothecarum*, Nuremberg, 1786, ii. p. 97; Lindenau, *Correspondance de Zach*, Oct. 1810; Lelewel, *Géog. du Moyen Age*, ii. 110.

The map has sometimes been attributed to Ferdinand Columbus; but HARRISSE dismisses his claim, as well as those of Alonso de Santa Cruz, Chaves, Ribero, and Simon de Alcazaba de Sotomayor; and after pointing out the resemblance in the nomenclature of the map to that of Pedro Reinel, he inclines to attribute it to Nuño Garcia de Torenó, the maker of the Venice map of 1534, later to be mentioned.

The map has this title: *Carta universal, en que se contiene todo lo que del Mundo se a descubierto hasta aora hizola un cosmographo de Su Magestad Anno M.D.XXVII en Sevilla*.

Of the same date (1527) is the map, which Desimoni cites in the *Giornale Ligustico*, p. 62, as by the Vesconte de Maiollo, preserved in the Biblioteca Ambrosiana, at Milan, though Desimoni quotes the inscription thus: "Vesconte de maiollo composuy hanc cartam in Janua de Anno Domini 1587, die xx decembris;" and says that it bears on the South American continent the following legend: "Terra nova descuberta per Christoforo Colombo Januensem [sic]." The date, 1587, should be 1527, and the inscription as HARRISSE (*Cabot*, p. 177) gives it, is "Vesconte de Maiollo composuy hanc cartam In Janua anno dny. 1527. die xx decembris." Desimoni has since reproduced it, correcting the date, in his *Allo studio secondo intorno a Giovanni Verrazano*, third appendix, published at Genoa in 1882. Dr. De Costa showed a large photograph of it at a meeting of the N. Y. Historical Society, May, 1883, pointing out that the name "Francesca" on it gives Verrazano, rather than Cartier the credit of bestowing that appellation on the northern parts of America. *Mag. of Amer. Hist.*, June, 1883, p. 477. For Maiollo's cartographical standing, see Heinrich Wuttke's *Geschichte des Vereins für Erdkunde in Dresden*, 1870, p. 61.

The second of the Gomez charts is Diego Ribero's parchment map of 1529, copies of which are preserved at Weimar and Rome. Kohl gives a facsimile of the American parts in his *General-Karten*, and a smaller reduction in his *Discovery of Maine*, p. 229; and De Costa sketches the eastern seaboard of North America in his *Verrazano the Explorer*. A reduction is also to be found in H. H. Bancroft's *Central America*, i. 146, and in Lelewel's *Géog. du Moyen Age*, and Murphy, p. 129, gives it with English names. The earliest reproduction is given in a memoir (describing a copy then at Jena in the library of Büttner) by M. C. Sprengel, in 1795, appended to a German translation of Muñoz, and printed separately as *Über Ribero's älteste Welt-karte*. There is a copy in Harvard College Library. The map is also described in Humboldt's *Examen critique*, iii. 184.

Thomassy, *Les Papes Géographes*, p. 118, in referring to the original, says there are two other copies of it, beside the one in the Propagande, and he cites from the *Gazetta letteraria universale* of May, 1796, p. 468, a letter from Rome respecting Sprengel's account. Santarem (*Bull. de la Soc. de Géog.*, 1847, vii. p. 310) also mentions this map as being in the Propagande, and as having belonged to Cardinal Borgia. Cf. also Santarem's *Recherches sur la découverte des pays au-delà du cap Bojador*, pp. xxiii and 125; Murr, *Hist. diplom. de Behaim*, p. 26; Lelewel, *Géog. du Moyen Age*, ii. 166, and pl. 41.

This Ribero map bears the following inscription: *Carta universal en que se contiene todo lo que del mundo. Se ha descubierto hasta agora: Hizola Diego Ribero Cosmographo de Su magestad: Año de 1529. La Qual Se deve de end partes conforme a la capitulacion que hixerón los catholicos Reyes de españa, y El Rey don Juan de portugal en la Villa [citta] de Tordesillas: Año de 1494.*

The Propagande copy has the words "en Sevilla," after the date. Ribero was a Portuguese, but in the service of Spain, having been made royal cosmographer, June 10, 1523. He died in 1533. HARRISSE describes the Weimar copy as having on "Tiera del Labrador" the words: "Esta tierra descubrieron los Ingleses no ay en ella cosa de prouecho." Thomassy says the Vatican (Propagande) copy only indicates the discovery of Labrador "by the English of Bristol."

There is a certain resemblance to both these Weimar charts in what is called the Portolano of Philip II., given to him by Charles V., and which is described by Malte-Brun in the *Bull. de la Soc. de Géog.*, 1876, p. 625. Its precise epoch can best be fixed by the discoveries in Florida, Peru, California, and the voyage of Magellan (1519-21), which it chronicles, and the absence of any positive configuration of the coast of Chili, which was tracked in 1536. Making allowance for the time necessary for the spreading of intelligence in those days, we may put the chart not earlier than 1535, nor later than 1540. An edition of a hundred copies of a photographic reproduction of it, with an introduction by M. Frédéric Spitzer, was issued in Paris about 1875.

A map of the same type is that given in facsimile in the *Cartas de Indias*, published by the Spanish government in 1877, and entitled "Carta de las Antillas, seno Mejicano y costas de tierra firme, y de la America setentrional."

Thomassy (*Les Papes géographes*, p. 133) cites a MS. parchment atlas preserved in the Propagande, entitled *Orbis maritimus sæculi xv* (i.e. xvi), which has a map of the Pacific showing America and the Moluccas, seemingly of a date not long after the Spaniards had reached that sea; and after the discoveries of Gomez, which are noted, and all the eastern coasts of America are given except the extreme easterly parts of South America, cut off by the edge of the sheet, which is, however, given in the fifth or the next following map of the series.

Henry Stevens, who contends that Ribero's map was a partisan production and did not grow out of the Gomez voyage, says that a wood-cut map, measuring 21 X 17 inches, of which the only copy is in the Lenox Library (sold to Mr. Lenox in 1853 for £18 18s.), was evidently compiled from these maps of Ferdinand Columbus and Ribero, while Henri HARRISSE thinks it preceded the 1527 map, and was very likely of the same authorship. Harris, the English penman, executed a facsimile of this wood-cut map in 1850, which is entitled: *La carta uniuersale della terra firma & Isole delle Indie occidentali, cio è del mondo nuovo fatta per dichiarazione delli libri*

delle Indie, cavata da due carte da naicare fatte in Sibilida da li piloti della Maiesta Cesarca.

The original was printed at Venice in 1534. It is also given of quarter-size facsimile in Stevens's *Notes*, pl. ii.; and again in his illustrated edition of the *Bibliotheca Geographica*, no. 2955. This Venice map, according to Mr. Stevens, "notwithstanding all research, has remained unique to this day (1882)," and according to Mr. Brevoort and Harrisse (*Cabot*, p. 168) it belongs to the conglomerate work of Peter Martyr and Oviedo (*Historia de l'Indie occidentali*), which was printed in three parts at Venice in 1534. Murphy (*Verrazzano*, 125) quotes the colophon of the Oviedo part of the book to give the origin of the map: "Printed at Venice in the month of December, 1534. For the explanation of these books there has been made a universal map of the countries of all the West Indies, together with a special map [Hispaniola], taken from two marine charts of the Spaniards, one of which belonged to Don Pietro Martire, Councillor of the Royal Council of the said Indies, and was made by the pilot and master of marine charts, Nuño Garzia de Torenio in Seville. The other was made also by a pilot of the majesty, the emperor, in Seville." Quaritch, in one of his *Catalogues* (no. 349, p. 1277), says that an advertisement at the end of the secondo libro, of Xeres, *Conquista del Peru*, Vinegia, 1534, — shows that the map in the first ed. of Peter Martyr's *Decades* was made by Muño Garcia de Torenio at Seville. Harrisse refers to a map of Torenio, preserved in the Royal library at Turin, which is dated 1522, in which he is called "piloto y maestro de cartas de nauegar de Su magestad." The American part of this last chart is unfortunately missing. Cf. Vincenzo Promis, *Memoriale di Diego Colombo con nota sulla bolla di Alessandro VI.*, Torino, 1860, p. 11. The subject is examined in a paper by Heinrich Wuttke, "Zur Geschichte der Erdkunde in der letzten hálfte des Mittelalters," in the *Jahresbericht des Vereins für Erdkunde in Dresden*, 1870, vol. vi. and vii. p. 61, etc. Inasmuch as Peter Martyr died in September, 1526, it is Harrisse's opinion that the date given it by Stevens (1534) is not early enough, and that it should go back to a time anterior to Martyr's death. Harrisse calls it the earliest known chart of Spanish origin which is crossed by lines of latitude and longitude, and thinks it marks a type, adopted by the Spanish cosmographer a little after the return of Cano from the Straits of Magellan and of Pascual de Andagoya from Panama in 1522, with additions based on the tidings brought by Gomez on his return to Seville in December, 1525. Harrisse also refers to a portolano, Spanish and anonymous, which is preserved at Mantua, and which is numbered 168 in Uzielli's *Elenco*. Stevens considers Torenio's delineation of the eastern coast of the two Americas the best which had been drawn up to this date.

This Martyr-Oviedo compilation, which was the work of Ramusio, is not a very rare book without the map, and in this condition it is found in the Harvard College, Carter-Brown, J. C. Brevoort, H. C. Murphy, and Lenox libraries, — the latter being the Ternaux copy.

Cf. *Carter-Brown Catalogue*, i. no. 107; Stevens, *Hist. Coll.*, i. no. 344; and *Nuggets*, ii. 1808; *Sunderland Catalogue*, iv. 8177; Rich, *Catalogue* (1832), no. 10; Ternaux, *Bibl. Américaine*, no. 43.

Munster could hardly have derived much assistance from the two small maps which Apianus inserted in the first edition of his *Cosmographicus Liber*, 1524, — one showing "America" and the other marking an island "Ameri." This book is scarce and is worth £5 or £6. (Cf. *Carter-Brown Catalogue*, i. 78;

Huth Catalogue, i. 39, where the collation differs from that given in Harrisse, *Bibl. Amer. Vet.*, no. 127; Sabin, *Dictionary*, no. 1738; Clement, *Bibl. Curieuse*, i. 404.) There was some change for the better in the shape of America as given in the 1539 edition.

Of perhaps the same year (1524) is the earliest globe to show North America disconnected from Asia, which is inscribed "Nova et integra universi orbis descriptio." It was long preserved at Prémontré and is now in the Bibliothèque nationale at Paris. It has no date. D'Avezac fixed it even before 1524; others have put it about 1540. (Raemdonck, *Les sphères de Mercator*, 28; Davezac in *Bull. de la Soc. de Géog.* (1860), xx. 398.) On the western coast of America is written: "Hec littora non dum sunt cognita." The eastern shores of North America are called "Terra Francesca."

There is in the Huth Library (*Catalogue*, iv. p. 1171) a MS. on vellum, covering ten very beautifully executed maps, apparently drawn by an Italian geographer for a Spanish or Portuguese navigator. It is a small folio (10 X 7 inches). The *Catalogue* gives no further description of the American regions than that "the southwest coast of South America is left blank, which would fix the date as not later than 1525 or 1530."

Nor could Münster have derived much assistance from the misshapen outline of America, which appeared in the *Libro di Benedetto Bordone*, in 1528, the first edition of the book, known later as the *Isolario*. The map was repeated in the 1533 edition. This outline is sketched in H. H. Bancroft's *Central America*, i. 144. There is a copy in the Astor Library. Cf. Sabin, *Dictionary*, ii. 6417; Lelewel, *Géog. du Moyen Age*, ii. 114, 162; *Carter-Brown Catalogue*, no. 91; Harrisse, *Bibl. Amer. Vet.*, no. 145; Brunet, *Manuel*, i. 1112; Zurla, *Marco Polo*, ii. 363; Lenglet du Fresnoy, *Méthode pour étudier la Géographie*, i. 419; Renouard, *Annales des Alde*, i. 142.

Kohl, in his MS. in the American Antiquarian Society's library, gives 1530 as the date of a manuscript map in the British Museum, which is the earliest he can find, making a return to the view which obtained before Stobnicza, that North America was an easterly prolongation of Asia. This map places "Mangi provincia" in northern Mexico, which is connected westerly with the Asiatic main. Kohl has also included a copy of this map in his Washington collection. The original belongs to a MS. in the Sloane collection, called *De Principiis Astronomie*, and the configuration of the eastern coast of North America is identical with that of Finæus's map, next to be mentioned.

In 1531, Orontius Finæus (Oronce Finé) produced, at the cost of Christian Wechel, his cordiform map, which came out in the Paris edition (1532) of Grynaeus's *Novus Orbis*, and is entitled "Nova et integra universi orbis descriptio." A facsimile of it has been made by Muller of Amsterdam, and it is reproduced in Stevens's *Notes*, pl. 4, and was much reduced in Daly's *Early Cartography*, p. 34. The distortions incident to the projection which is used, makes Mr. Brevoort's rendering of it into Mercator's projection more comprehensible than the original. Stevens, *Notes*, pl. 4, gives this Brevoort drawing, and it is reproduced in the *Narrative and Critical Hist. of America*, iii. p. 21, and sketched in H. H. Bancroft's *Central America*, i. p. 149.

The geography of this Finæus map was the earliest return in a published map to the belief, just mentioned, that North America was really Eastern Asia, and South America a continental peninsula extending from Southeastern Asia. (Cf. Wieser's *Magalhães-Strasse*, p. 66, et seq.) Harrisse, *Cabot*, p. 182, has

pointed out the similarity of its nomenclature to the two Weimar charts of 1527 and 1529. The map in the folio edition of the *Építome* of Vadianus (1534) is said to resemble this of Finæus, but with "notable changes." It is called "Typus cosmographicus universalis." Tiguri Anno. M.D.XXXIII." The *Huth Catalogue*, v. 1508, says: "We here find America marked, but it is represented as an island somewhat in the shape of South America." Leclerc, *Bibl. Amer.*, no. 586 (130 francs); *Carter-Brown Catalogue*, no. 112. The octavo edition of Vadianus of the same year has, we suspect, no map; but Quaritch a few years ago advertised a copy,—"the only copy he had ever seen containing the map," for £4.

Copies of the Paris edition of Grynæus are in the Lenox, Barlow, and Carter-Brown libraries,—the Lenox library having both varieties of imprint. The preface is said sometimes to be wanting; at other times it is disfigured by the erasures of paragraphs offensive to the Inquisition. Cf. HARRISSE, *Bibl. Amer. Vet.*, nos. 172, 173; *Carter-Brown Catalogue*, no. 102; Sabin's *Dictionary*, ix. nos. 34101, 34102; Leclerc, *Bibl. Amer.*, no. 412 (150 francs) and 2769; Stevens, *Bibl. Geographica*, p. 124; *Sunderland Catalogue*, no. 263; Müller, *Books on America* (1872), no. 1847; Kohl, *Maps in Hakluyt*, p. 29.

The two Paris imprints are: "Apud Galeotum a Prato," and "Apud Joannem Parvum sub flore lilii." Copies have been priced of late at £15 and 40 marks.

This Finæus map of 1531 again appeared in the very year of Münster's new departure as shown in the "Novus Orbis" of the 1540 Ptolemy. This was as a part of the Pomponius Mela of 1540, with no change except that the dedication, which is set in type within a square at the bottom of the map, is given in a new letter. (Cf. Leclerc, *Bibl. Amer.*, no. 460 (200 francs); HARRISSE, *Bibl. Amer. Vet. Additions*, no. 126. Dufossé, *Americana*, 8624 (70 francs).) It is also said to have appeared in the *Geografia* of Lafreri and others, Rome, 1554-72.

Finæus was also followed in the heart-shaped map of Mercator, the earliest of his engraved maps which have been preserved being dated 1538, while the only copy known is in the collection of J. Carson Brevoort. It varies, however, from Finæus in separating America from Asia by a narrow sea. (E. F. Hall's "Gerard Mercator, his life and works," printed in the American Geographical Society's *Bulletin*, 1878; Mr. Brevoort's *Appendix*, p. 196.) Again, it would seem there was some reciprocity of obligation, when Schöner in 1533 produced his globe of that year, already referred to under the Ptolemy of 1522. (Cf. Wieser's *Magalhães-Strasse*, pp. 79, 80).

There had been during this interval which we are considering an English merchant, Robert Thorne, residing at Seville, who was interested in cosmography. He had picked up the current notions as they prevailed in Spain, and embodied them in a map in 1527, which he sent with a treatise upon it, to Dr. Ley, the English ambassador then residing near the emperor Charles V. It may be taken as a type of the information which reached Münster from Spain, and HARRISSE (*Cabot*, pp. 91, 176) compares it with the type shown in the 1527 and 1529 Weimar maps. In its engraved form it did not appear till Hakluyt included it in his *Divers Voyages* in 1582. It is reproduced in the Hakluyt Society's edition of that book; in Brown's *Hist. of Cape Breton*, p. 22; and the American part is shown in the *Narrative and Critical Hist. of America*, iii. p. 17. It makes Asia distinct from America, but leaves the western

shores of the latter continent undefined, and cut off by the margin of the sheet. It connects South America with North America. All the early representations of that continent, with the sole exception of the remarkable Stobnicza map, make it an island, in pursuance of the belief which had come down from the time of Strabo that all seas were connected. Santarem in the *Bull. de la Soc. de Géog.* (1847), vii. p. 318, has discussed the question of the duration of this belief, as shown by the early maps; but when he cites the Ptolemies of 1513 and 1522 and Bordonone of 1528 and 1533 as making South America a "continent," he assumes what the maps do not disclose; and again in putting 1548 as the date (citing the Ptolemy of that year) when the maps begin to show the connection of South America by an isthmus, he unaccountably overlooks the map in Medina's *Arte de navegar* of 1545, the Cabot mappemonde of 1544, the Mercator gores of 1541, the maps of Apianus, 1540-45, the Münster map of 1540, an Agnese map of 1536, Orontius Finæus of 1531, the Verrazzano chart of 1529, Ribero's of the same year. The Nancy Globe might possibly also antedate 1548. All later maps, if we except repetitionary issues like those of the Honter globe (originally published in 1542), seem to recognize the link of the isthmus. The most distinctive insular shape given to South America is found in Coppo's map of the world of 1528, which shows a northern coast much indented, with a southern limit rounded in an indefinite way and much cut short of its proper extension towards the antarctic pole. North America does not appear unless a large island, "Isola verde," northeast of Cuba, stands for the Baccalaos region, or perhaps for Greenland. There are drawings of this Coppo map in the collections of the State Department and of the American Antiquarian Society. The original is found in a *Portolano per Piero Coppo*, published at Venice in 1528,—a copy of which is in the British Museum.

Of the voyage of Jacques Cartier up the St. Lawrence in 1534, there is no evidence in Münster's map, though he applies the name "Francisca" to the northern regions. If Cartier made any charts, none are now known. HARRISSE (*Cabot*, p. 145) accounts for the retention of the old notions about this region by supposing that the first two voyages of Cartier attracted little attention outside of France; and it was not till after 1540 that more definite cartographical results of Cartier's explorations began to appear, unless something can be learned from the MS. Spanish map in the Huth library, which Kohl (*Discovery of Maine*, p. 315) describes. HARRISSE (*Cabot*, p. 205) enumerates some of the cosmographers at this time in France,—Germain Sorin, Jehan de Conflans, Jean de Clamorgan and Pierre Desceliers; and (p. 148) he refers to two maps of the time of Francis I.;—one mentioned by Delisle in his *Cabinet des MSS. de la bibliothèque impériale*, Paris, 1866, i. p. 265, as "Cosmographie ou cartes géographiques et hydrographiques présentées par Jean de Clamorgan à François 1^{er}," to which is added, "le volume est en déficit;" and the other is "Cartes de tout l'Univers, 1536," preserved in the Sir Thomas Phillipps Collection at Cheltenham, and made by, or perhaps only once owned by, Guyon de Sardière.

There are noted as in the Kohl collection (State Dept. Washington), two maps of about this time, which will repay examination,—one is called F. Roselli's of 1532, and the other a Zurich map of 1533.

Münster could hardly have been helped by the vellum portolano inscribed: *Gaspar Viegas, Dato*

1534, which was removed in 1865 from the national archives in Paris to the map department of the Bibliothèque nationale (no. 18772). It is partly figured in Kohl, *Discovery of Maine*, p. 348. Harrisse (*Cabots*, p. 183) says that the names are all in Portuguese; that researches in Portugal have not revealed any information regarding Viegas; but that in the same collection is an undated map with his name, not however pertaining to America. The map which at present concerns us shows in the northwest corner the region of the St. Lawrence gulf.

Harrisse (*Cabots*, p. 185) also cites as of the same date (1534) a map preserved in the Ducal library at Wolfenbüttel, which resembles the type of the 1527 and 1529 Weimar maps, and in which Newfoundland is a continental projection. The legend at Labrador says that this land was discovered by the English from Bristol, and named Labrador, because the one who first saw it was a laborer from the Azores,—the usual interpretation being that it was so called, because Cortereal had taken away some of its natives and sold them at Lisbon as slaves,—Mr. Biddle (*Mem. of Cabot*, p. 246) having deduced this meaning from a letter of Pasqualigo in the *Paesii novamente ritrovati*, 1507, lib. vi. cap. cxxvi.

It is also to be regretted that the map of the eastern coast of North America, made by Alonzo de Chaves in 1536, and upon which Oviedo based his description of the coast, is not now known. (Kohl's *Discovery of Maine*, p. 307.) Alonzo de Chaves was made a royal cosmographer, April 4, 1528, and still held that title at the age of 92 in 1584. (Harrisse, *Cabots*, p. 173; Veitia Linage, *Norte de la Contratación*, p. 145.)

Santarem, *Bull. de la Soc. de Géog.* (1847), vii. 322, makes mention of a globe of 1534, preserved in the Grand Ducal library at Weimar, which shows a strait at the isthmus of Panama. It is not easy to identify this globe from his brief description.

Copies: (1) *Astor Library*; (2) *The Henry C. Murphy Library*; (3) *Samuel L. M. Barlow*,—the copy described by Harrisse.

References: *Carter-Brown Catalogue*, no. 126; Harrisse, *Bibl. Amer. Vet.*, no. 231; Grasse, *Trésor de livres*, v. 501; Leclerc, *Bibl. Amer.*, no. 477; Brunet, *Manuel*, *Supplément*, ii. 331; Stevens, *Hist. Coll.*, i. no. 678; *Astor Library Catalogue*; *Bibl. Heberiana*, v. 5398; Muller, *Books on America* (1875), no. 3249; Hoffmann, *Lexicon*, iii. 319; Lelewel, *Géog. du Moyen Âge*, ii. 176, 208; H. C. Murphy, *Verrassano*, p. 103; J. G. Kohl, *Discovery of Maine*, p. 296.

Copies have been priced of late years at £6 10s. and 90 francs.

1541.

Title: *Claudii Ptolemai Alexandrini Geographica Enarrationis Libri Octo. Ex Bilibaldi Pirckheimeri translatione, sed ac Græca & prisca exemplaria a Michaële Villanovano, secundo recogniti, & locis innumeris denuo castigati. Adjecta insuper ab eodem Scholia, quibus & difficilis ille Primus Liber nunc primum explicatur, & exoleta urbium nomina ad nostri seculi morem exponuntur. Quinquaginta illa quoque cum veterum tum recentium Tabula adnectuntur, variisq. incoleantium ritus & mores explicantur. Accedit Index locupletissimus hactenus non visus. Prostant Lugduni apud Hugonem à Porta. M.D.XLI.*

Colophon: Excudebat Gasper Trechsel, Vienna, M.D.XLI.. (Copied from the *Carter-Brown Catalogue*.)

Description: Folio. Title, with the address of Servetus, its editor, on the reverse, with the text,

making 149 pages (p. 9 is unnumbered, and p. 150 is blank); 50 maps, each two leaves, with descriptions on reverse; index of 46 (not 56) unnumbered leaves; table, one leaf; colophon, one leaf. The Barlow copy has a table on the reverse of p. 149, followed by the colophon leaf, and the maps next, with an index of 46 (not 56) leaves, and the table and colophon leaves at the end. There are some additions to, and omissions from, the 1535 edition, the paragraph on the barrenness of Palestine disappearing; but that on Columbus and Vesputius is retained. Leclerc says: "L'adresse de Trechsel, . . . indique parfaitement que le vol. est imprimé à Vienne, en Dauphiné." Cf. D'Artigny, quoted by Brunet, *Supplément*, ii. 331, who adds, "Cette édition est belle, mais moins rare et moins précieuse que ne le prétend d'Artigny."

Maps: Fifty in number, 49 of them occupying two leaves each, with descriptions on the reverse; but the 50th (Lorraine) is on the reverse of the Rhine provinces. The "Tabula terræ novæ" and the "Orbis typus universalis" are reprints of similar maps in the 1522, 1525, and 1535 editions.

The description of the new world is on sig. 28, reverse of map, and ends as follows: "Tota itaque quod aiunt aberrant coelo qui hanc continentem Americā nuncupari contendunt, cum Americus multo post Columbū eandē terram adieret, nec cum Hispanis ille, sed cum Portugallensibus, ut suas merces commutaret, eo se contulit."

Copies: (1) *Carter-Brown library*. (2) *James Carson Brevoort*. (3) *Charles H. Kalbfleisch*.

References: *Carter-Brown Catalogue*, no. 127; *Bibl. Grewilliana*, ii. p. 582; Leclerc, *Bibl. Amer.*, no. 476 (250 francs); *Walckenaer Catalogue*, no. 2251 (60 francs); Harrisse, *Bibl. Amer. Vet.*, no. 233; Brunet, *Manuel*, iv. 955, and *Supplément*, ii. 331; Grasse, *Trésor de livres*, v. 501; Libri, *Catalogue* (£20 10s); D'Artigny, *Nouveaux Mémoires d'histoire*, ii. 65; Dufossé, *Americana*, no. 8638 (150 francs); Quaritch, *Catalogue* (1880), 1154; Muller, *Books on America* (1872), no. 2311; (1875) no. 3250; (1877) no. 2622; Hoffmann, *Lexicon*, iii. 319; *Crevinna Catalogue*, v. 20; *Labanoff Catalogue*, no. 24; *Klass Catalogue*, no. 3325.

The English dealers usually price this edition at from £3 to £5; the French at from 50 to 100 francs.

1541.

Title: Same as the 1540 edition, of which this is a reissue, with merely a new date.

Copies: (1) *The Henry C. Murphy Library*.

1542.

Title: *Geographia universalis, vetus et nova, complectens Claudii Ptolemai Alexandrini enarrationis libros viii. Quorum primus nova translatione Pirckheimeri et accessione commentarioli illustrior quam hactenus fuerit, redditus est. . . Succedunt tabula Ptolemaica, opera Sebastiani Munsteri novo parata modo. His adjecta sunt plurimæ novæ tabulae, modernæ orbis faciem literis & picturis explicantes, inter quas quædam antehac Ptolemæo non fuerunt additæ.*

Colophon: Basileæ apud Henricum Petrum mense Martio, An. M.D.XLII. (Copied from the Trumbull copy.)

Description: Folio. Generally said to collate like the 1540 edition; but the Barlow copy has this collation: Title, reverse blank; epistola, 2 leaves;

blank leaf; index, 6 leaves; liber i., 17 leaves; blank leaf; title; 48 maps; liber ii., pp. 1-196. Of these, p. 156 is blank, and p. 196 has the printer's mark only.

Dr. Trumbull says of his copy, that the maps (48) are placed between (the blank) page 156 and Sebastian Münster's "Appendix Geographica," pp. 157-195. The text of the *Ptolemy*, proper, ends on p. 155, the recto of N (6), — the last leaf of a signature. The "Appendix Geographica" begins, p. 157, on the recto of Aa (1), — commencing a new alphabet of signatures.

What HARRISSE calls "the title of the maps" is merely the title or description of the *first* map ("Typus universalis"), — "Orbis universalis Descriptio." Each of the 48 maps has the title (and description) on the recto of the first leaf, the map being printed on the inside of the sheet, leaving the verso of the 2d leaf blank.

Holbein is said by some to have engraved the borders; but Dr. Trumbull thinks they were blocks, — perhaps in some cases designed by Holbein, — evidently used from the publisher's stock; and that they had done earlier service in other books. The border to Tabula x. is dated 1523; while that used both in iii. and xxvii. shows the monogram of Adam Petri. Groups of boys, like Holbein's, are in nos. i., v., xiv., xix., xxiv., xxvii. Cf. C. F. v. Rumohr's *Holbein*, Leipsic, 1836, p. 114.

The editor is called on the recto of the second leaf: "Sebastianus munsterus in Basiliensi academia Hebraismi professor."

Maps: Same as in the 1540 and 1541 editions, edited by Münster.

HARRISSE puts the "Orbis universalis" on the reverse of the title to the maps, and on the recto of the following leaf.

Copies: (1) *Astor Library*. (2) *The Henry C. Murphy Library*. (3) *James Carson Brevoort*. (4) *J. Hammond Trumbull*. It is in old stamped leather binding; on the title is: "Collegii Societatis Eystadij, 1662"; on the inside cover: "Ex dono Jesu Reverendissimi et Celsissimi Epi. ac Principis Marquardi. Ao. 1662." (5) *Samuel L. M. Barlow*, with maps, initials, &c., colored by hand.

References: HARRISSE, *Bibl. Amer. Vet.*, no. 240, whose collation is of an imperfect copy and varies from other descriptions; Brunet, *Manuel, Supplément*, ii. 331; *Astor Library Catalogue*, p. 1524; Graesse, *Treasure of books*, v. 501; Quaritch, *Catalogue* (1880), 1154; Hoffmann, *Lexicon*, iii. 320.

Copies are priced at £5 and £10.

1543.

Lelewel gives an edition of this year: "Venetiis, atlas cum tabulis novis Jacobi Gastaldo"; and refers to Zurla, *Sulle antiche mappe idrogeogr.*, ch. 31. D'Avezac says the edition of 1548 is the one meant, and that there is none of 1543. Cf. D'Avezac, *Sur la Projection*, etc., Paris, 1863, p. 72, — an extract from the *Bull. de la soc. glog.*

1545.

Title: *Geographia universalis, vetus et nova, complectens Claudii Ptolemai Alexandrini enarrationis Libros viii. Quorum primus nova translatione Perckheimheri & accessione Commentarioli illustrior quàm hactenus fuerit, redditus est. . . Succedunt tabula Ptolemaica, opera Sebastiani Munsteri novo parata modo. His adiecta sunt plurimæ nova tabula, modernam orbis faciem literis & pictura explicantes, inter*

quas quædam antehac Ptolemao non fuerunt addita. . . Basileæ, apud Henricum Petrum Anno M.D. XLV.

Colophon: *Basileæ per Henricum Petrum mense Augusto An. M.D.XLV.* (Copied from the Harvard College copy.)

Description: Folio. Title, with a figure of Münster taking an observation on the reverse; 9 unnumbered preliminary leaves, including six of index; liber i. 17 unnumbered leaves; blank leaf; liber ii. to viii. and appendix, pp. 155, p. 156 blank; the 54 double maps; appendix, pp. 157-195, colophon on 195, and printer's mark on 196.

Brunet's collation, *Supplément*, ii. 331, is quite different: Title, 1 folio; 3 folios not numbered; 16 folios not numbered for the index; 1 folio blank; 155 pp. numbered; xxxv. pp. for appendix; 17 folios not numbered; 54 double maps. Brunet probably followed the collation given by HARRISSE, *Additions*, no. 155, from a copy in the library of Bologna University.

Maps: Two maps of the world, the first containing America, the other the ancient world; and 52 other maps, each filling two leaves with descriptions on the reverse. (Graesse says 53 maps in all.) The last map of the new series, numbered xxvi. is "Novae Insulae," the common Münster map of the two Americas, as in the 1540 edition, but the inserted names are in Latin. The "Dania et Schonlandia" shows a bit of Grönland on the north. The map of the world, with America, is re-engraved in the 1552 edition, and in the 1554 edition of Münster's *Cosmographia*.

Copies: (1) *Carter-Brown Library*. (2) *The Henry C. Murphy Library*. (3) *J. R. Webster*, of East Milton, Mass. (4) *Library of Congress*. (5) *Harvard College Library*.

References: *Carter-Brown Catalogue*, no. 140; Brunet, *Manuel, Supplément*, ii. 331; *Chatsworth Catalogue*, iii. 269; *Library of Congress Catalogue* (1867), p. 332; HARRISSE, *Bibl. Amer. Vet., Additions*, no. 155; describing a copy differing slightly; Harrassowitz, *Katalog*, no. 81, book-number, 56 (38 marks); T. O. Weigel, *Catalogue* (1877), no. 1477 (28½ marks). A fine copy priced in Italy (1883) at 75 lire.

1546.

Title: *Claudii Ptolemai Alexandrini philosophi cum primis erudit, de Geographia libri octo, summa vigilantia excusi, cura Des Erasmi. Parisiis, apud Chr. Wechelum, 1546.*

Description: Quarto. Four preliminary leaves and 435 pages. A reimpression of the 1533 edition of the original Greek text. Brunet says that the book has not the index mentioned in the title.

Maps: None.

Copies: (1) *Yale College Library*.

References: Brunet, *Manuel*, iv. 950; *Sunderland Catalogue*, iv. 10351.

1547.

. See the edition of 1548, which is dated 1547 in the colophon.

1548.

Title: *Ptolomeo. La Geografia di Claudio Ptolomeo Alessandrino, con alcuni comenti & aggiunte fattenti da*

Sebastiano munstero Alamanno, Con le tavole non solamente antiche & moderne solite di stāparsi, ma altre nuove aggiunte di Messer Iacopo Gastaldo Piamōlese cosmographo, ridotta in volgare Italiano da M. Pietro Andrea Mattiolo Senese medico Excellentissimo con l'aggiunta d'infiniti nomi moderni, di Città, Provincie, Castella, et altri luoghi, fatta cō grandissima, diligenza da esso Messer Iacopo Gastaldo, il che inissim altro Ptolomeo si ritrova. Opera veramente non meno utile che necessaria. In Venetia per Giord. Baptista Pedresano. Co'l privilegio dell' Illustriss. Senato Veneto per anno x. MDXLVIII.

Colophon: *In Venetia, ad Instantia di messer Gioua battista Pedresano libraro al segno della Torre a pie del ponte di Rialto. Stampato per Nicolo Bascarin nel Anno del Signore, 1547, del mese di Ottobre.* (Copied from the Marcou copy.)

Description: Small octavo. Including title with an engraved border, and one leaf with a woodcut of an astronomer, there are eight preliminary leaves; text 1-214 numbered leaves; register and colophon one leaf, on reverse blank; one folio blank; 60 double leaves, each with a map and description; "tavola," 64 leaves unnumbered.

The first edition of Ptolemy in Italian.

Maps: Sixty in all, well engraved on metal. They are based on the maps of the 1540 edition; but in some respects they are new in their geographical ideas. Santarem claims that we have South America as a continent for the first time; but he was ignorant of the Stobnicza map, not to mention others.

There are ten numbered maps of ancient and fifteen unnumbered of modern Europe; four numbered maps of ancient and five unnumbered of modern Africa; twelve numbered maps of ancient and seven unnumbered of modern Asia.

The American series is as follows:—

No. 54, "Della terra nuova." South America.

No. 55, "Della nova Hispania."

No. 56, "Della terra nova Bacalaos." This stretches from Florida to Labrador, and represents the St. Lawrence gulf as an archipelago, with no record of Cartier's explorations in that region.

No. 57, "Dell' isola Cuba nuova."

No. 58, "Dell' isola Spagnola."

No. 59, "Dell' universale nuova." An elliptical projection of the world, showing North America as a prolongation of Asia, with South America as a continental peninsula.

No. 60, "Della carta marina universale." South America is much as in no. 59, but North America, while still a part of Asia, is very differently drawn. A large gulf is northwest of California, while the Ganges is at the extreme western limit of the map. A sea at the north, like that of Verrazano, nearly severs the continent, making an isthmus in about 40° north latitude. Bacalaos, Labrador, and Gronlandia form a continuous isthmus widening midway, but narrowing again in the extreme northeast, where it once more expands into Laponia in the northwest of Europe. The earth is thus belted by land.

Jacobo Gastaldo, or Gastaldi, was, as Lelewel (*Épilogue*, 219) calls him, "le coryphée des géographes de la péninsule italique," from 1543 to 1570.

Since the issue of Münster's series of maps in 1540, and up to the time of this first Italian edition (1548), there were various charts and maps, drawn or published, which might directly or indirectly have exerted an influence upon Gastaldi's cartographical views. There were others, indicative of the progress

of ideas, which could hardly have been known to him. Both kinds will now be passed in review.

The Amazon was explored in 1539, and probably within the next few years, the so-called Nancy Globe was made, since it represents those discoveries. It presents one more link in the succession of geographical ideas, which kept (as in Gastaldi's no. 59) to the original theory of the identity of North America with Asia, and which finds a "Mare cathayum" in the Mexican gulf. This globe was given by Duke Charles V. of Lorraine to the church at Nancy, and being made to open in the middle, it was long used as a pyx. It is now preserved in the Public Library of that town, and was described, with an engraving by M. Blau in the *Mémoires de la société royale de Nancy*, in 1836, and drawings of it were again given in the *Compte-Rendu* of the Congrès des Américanistes, 1877, p. 359: and once more by Dr. De Costa in the *Mag. of Amer. Hist.*, March, 1881.

An edition of the *Cosmographia* of Apianus, issued in 1540 at Antwerp had a map (which has been reproduced in Lelewel's *Glog. du Moyen Age*, pl. 46) with an account, "Insulae Americae adjacentes" on folio 44.

Cf. *Carter-Brown Catalogue*, i. no. 125; *Harrisse, Bibl. Amer. Vet.*, no. 230; *Sabin, Dictionary*, no. 1745.

A mappemonde is also usually found in the 1544 (French) and 1545 (Latin) editions, as well as in the 1548 (Spanish) edition of Apianus; which also appeared in later editions. A copy of the 1544 edition, with a defective map is in the Boston Athenæum. North America joins South America and stretches north, in a narrow belt of land, marked "Baccalearum," with a parallel coast of India, in the northerly parts, separated by a narrow sea. Cf. *Sabin*, no. 1752; *Carter-Brown Catalogue*, i. no. 592. It bears some resemblance in these northeastern parts to Gastaldi's no. 60, except that there is no connection made with northwestern Europe. I have used Mr. George Dexter's copy.

A similar reiteration of earlier maps also took place in the edition (1547) of Bordone's *Isolaria*, which appeared in the interval under consideration.

In 1541, Gerard Mercator issued some engraved gores for a globe, of which three copies are known,—one in the Royal Library at Brussels, the second in the Imperial Court Library at Vienna, and a third at Weimar,—the last may be doubtful. They have all been discovered of late years; and in 1875 the engraving was reproduced in facsimile at Brussels, copies of which reproductions (200 were printed) are in Harvard College, the State Department (Washington), and in the American Geographical Society libraries.

Cf. Raemdonck's *Les sphères de Mercator*, the text accompanying the facsimile, and his *Sur les exemplaires des grandes Cartes de Mercator*, Paris, 1878, p. 9; Steinhauser in *Mittheilungen d. Wiener Geog. Gesellschaft*, 1875, p. 589; Wieser in the *Sitzungsberichte* of the Vienna Academy, Phil.-hist. class, 1876, p. 547, and in his *Magalhães-Strasse*, p. 69. This 1541 map of Mercator puts a sea between America and Asia; and in the region of the St. Lawrence gulf resembles Gastaldi's no. 56.

Under 1542 is to be put the globe, made by Ephrosynus Ulpius, which has already been referred to, and which is of copper, fifteen and a half inches in diameter. It is now in the rooms of the New York Historical Society, having been discovered in Spain by Buckingham Smith in 1859. It passed after Mr. Smith's death, by purchase, into the society's custody. It is described in the *Hist. Mag.*, 1862,

p. 302, and the American parts are engraved in Mr. Smith's *Inquiry into the authenticity of Verrazano's claims* in Henry C. Murphy's *Verrazano*, p. 114; in the *Narr. and Crit. Hist. of America*, iv.; and in De Costa's paper in the *Mag. of Amer. Hist.*, Jan. 1879, afterwards included in his *Verrazano, the Explorer*, p. 64. The globe is of Italian make, and is thought to have been made in Rome. It has the Verrazano Sea, as in Gastaldi's no. 60, but gives no token of Cartier's discoveries.

The map, which is usually cited as the "Henri II. map," has heretofore been considered of a somewhat uncertain date. Jomard, who gives (pl. 19) a facsimile of it, describes it as a "mappemonde peinte sur parchemin par ordre de Henri II., roi de France," and as belonging to the middle of the century. D'Avezac places it in 1542 (*Bulletin de l'Académie des Inscriptions*, 30 Août, 1867). Kohl, in his *Discovery of Maine*, p. 351, sets its completion at 1543, and calls it "one of the most exact and trustworthy of the time."

The original belonged to Jomard, and was offered at his sale (*Catalogue*, Paris, 1864, no. 121) for 2,000 francs, and is now in the collection of the Earl of Crawford and Balcarres. Cf. HARRISSE, *Cabots*, p. 210, who gives a long account of the map and refers (p. 149) to it as being the earliest to give an approximate configuration to the Gulf of St. Lawrence and insularity to Newfoundland. Of late years, under the scrutiny of Mr. Major, the following legend has been made out, fixing the date somewhat later: *Faictes a Arques par Pierre Desceliers, presb^r 1546*, which is written, and now almost illegible, in the top left-hand corner near Japan. HARRISSE, *Cabots*, p. 216, gives an account of Desceliers, of which we shall find other maps later.

Kohl gives a reproduction of the parts of it representing eastern North America. The Cartier discoveries are recognized in it; but from the Spanish names along the coast it is evident the maker had Spanish charts before him also, and yet as it bears names in this language not in Ribero or in any earlier Spanish chart known to us, it would follow that through the banished Portuguese De Sylva, or some other helper, its compiler had drawn from sources not now extant.

In 1790 the British Museum acquired a similar map which is described by Malte-Brun in his *Hist. de la Géographie* (1831), i. 630, and which is noted in the *Catalogue of the MS. maps in the British Museum* (1844), i. 22; add MSS. no. 5413. It is the map described by HARRISSE, *Cabots*, p. 197, as the "Mappemonde Harleyenne." The British Museum catalogue dates it before 1536; but HARRISSE says 1542. It shows Newfoundland as an archipelago. As the Saguenay is not given, HARRISSE places its date before October, 1542, when in his third voyage Cartier explored and named that river; and thinks it is based on a Portuguese map, improved by a knowledge of Cartier's discoveries.

There is also in the British Museum (*Catalogue of MS. maps*, i. 23) the *Hydrography* of John Rotz (1542), which is dedicated to Henry VIII., and to which Malte-Brun refers in his *Hist. de la Géog.*, ii. 631. It contains several American maps:—

No. 9. Gulf of Mexico and the Pacific from 34° North to 11° South.

No. 17. East coast of North America, from 6° to 51° North. Newfoundland is cut up into islands, and on the adjoining sea is this legend: "The newe fonde londe whar men goeth a fisching." According to HARRISSE, *Cabots*, p. 204, Rotz used the Portuguese-Dieppe authorities for this region.

No. 19. East coast of South America, from 6° South to the Straits of Magellan.

No. 20. Eastern and Western hemispheres.

Kohl cites and uses these maps in the collection in the Department of State at Washington, and sketches of them are given in the *Narr. and Crit. Hist. of America*, vol. iv.

The atlas is described by HARRISSE, *Cabots*, p. 77, 147, 201, and is thus entitled: *This booke of Idrographie is made by me Johne Rotz, sarvant to the kinges mooste excellent Majeste. God saue his Majeste.* and at the end is dated in the year of our Lord Godde Jm. V^e XLII^e, and of his regne the xxxiiij yere.

According to HARRISSE, Rotz was a Frenchman of Flemish name.

The Kohl collection at Washington shows an Oxford and a Gotha map of about this time; and one of Diego Homem of 1542.

In the Mediceo-Laurenziana of Florence there is an atlas inscribed: "Baptista Agnese Januensis fecit Venetiis 1543 die 12 Februarii." The words "Stegen Comes" on North America chronicle the explorations of Estevan Gomez. Cf. Baldelli, *Storia del milione*, i. p. lxx.; Zurla, *Di Marco Polo*, ii. 369; Desimoni, in *Giornale Ligustico*, ii. p. 57.

There is in the Coburg-Gotha archives another map, marked "Baptista Agnese fecit, Venetiis, 1543, die 18 Febr.," which resembles the Ribero chart. A portion of the eastern coast of North America is given in Kohl's *Discovery of Maine*, 316. There is another copy in the Huth library in London of the same date, while that in the Paris library is dated June 25. HARRISSE, *Cabots*, p. 189.

Kohl, *Description of Maine*, p. 294, cites one by Agnese of date 1544, as preserved in the Royal library at Dresden.

HARRISSE, in his *Notes sur la Nouvelle France*, nos. 188, 189, cites a chart of the North American coast, being nos. 5 and 6 of an atlas by Baptista Agnese, dated "le 8 mai, 1545, à Venise," preserved in the Marciana collection. HARRISSE refers to: P. Matkovic, *Alte handschriftliche Schiffer-Karten in der Bibliothek zu Venedig*, Wien, 1863, p. 10; G. Berchet, *Portolani esistenti nelle principali biblioteche di Venetia*, Venetia, 1866; Belgrano, *Rendiconto dei lavori d. Societ. Ligure*, Gènes, 1867. Cf. HARRISSE, *Cabots*, p. 189.

Under the 1540 edition of Ptolemy (*ante*) mention was made of a Ruscelli map of 1544, to be found in the British Museum, and of which a sketch is given, showing, however, only the North American parts, in Kohl's *Discovery of Maine*, p. 296, and in H. H. Bancroft's *Central America*, i. 148. It very closely resembles the map no. 60 of the present edition (1548) of Ptolemy. Cf. Lelewel, *Géog. du Moyen Age*, p. 170; Peschel, *Gesch. der Erdkunde* (1865), p. 371. Ruscelli's work will again be considered, when we come to the edition of 1561.

At this time (1544-45) we must place the drawing prefixed to a MS. in the Paris library (*fonds français*, no. 676), which bears this for a reconstituted title: *Cosmographie avec espere et regime du Soleil et du nord en nostre langue françoise composée par Jehan Allefonsee et Paullin Secalart cosmographe de Honneleur*. Allefonsee was captain and pilot of Francis I., and a native "du pays de Xaintonge près la ville de Cognac." Cf. HARRISSE, *Nouv. France*, nos. 2, 3, 4, 9 and 13; *Cabots*, p. 206. This MS. was afterwards published in an abridged form in *Les Voyages Avanteux du Capitaine Jan Alfonse, Saintongeois*, Poitiers, 1559, and there were subsequent editions, Rouen, 1578; Paris, 1598; La Rochelle, 1602 and 1605. It is in part given in Hakluyt's *Principal Navigations*, iii. p. 237. Alfonse explored the Straits

of Belle Isle, the St. Lawrence, and the Saguenay. There are later summaries of the MS. given in Margry's *Les navigations françaises*, Paris, 1867, p. 228, and in Guérin's *Navigateurs français*, p. 109. De Costa's *Northmen in Maine*, p. 92, claims that Alfonse was the first discoverer of Massachusetts Bay. Murphy's *Verrassano*, p. 37, gives a chart of the Norumbega coast after Alfonse's map, 1544-45, and the several hydrographical plots of Alfonse's are sketched in the *Narr. and Crit. Hist. of America*, vol. iv., in connection with a paper by De Costa. See D'Avezac on Alfonse in *Bulletin de la Société de Géographie*, 1857, p. 317; also *Mag. of Amer. Hist.*, ii. 376. *Le Routier de Jean Alfonse* was published by the Lit. and Hist. Soc. of Quebec in 1843. He supposed the Saguenay led to the Pacific and Cathay; and he brought out Cape Breton, as Rotz did, distinctly as an island.

Another recognition of the Cartier explorations is found in the map belonging to the Sir Thomas Phillips collection, which shows the eastern parts of North America, and is figured in Kohl's *Discovery of Maine*, p. 354. It is inscribed "Nicholas Vallard de Dieppe dans l'année, 1547,"—but it is not agreed if this be the maker's or merely the owner's name. Cf. Major's *Early Voyages to Australia*, pp. xxvii., xxxv. The Atlas, of which this is but part, seems rather to have been originally made by a Portuguese than by a Frenchman, and Kohl conjectures that it found its way to Dieppe through the instrumentality of the faithless Bishop of Viseu, Da Silva, and was copied by a Frenchman. It was first described, while in the possession of prince Talleyrand, by Barbié du Bocage in the *Magasins Encyclopédiques* (Millin), iv. (1807) p. 107. HARRISSE, *Cabots*, p. 219, finds resemblances in it to the so-called Henry II. map.

Still again are the Cartier discoveries fairly recorded in the large mappemonde of 1544, engraved on copper, and ascribed, with some uncertainty, to Sebastian Cabot. It leaves northwestern America and northeastern Asia undefined, with the designation "Terra incognita." Only one copy of it has been found, and that was discovered in 1843, in Germany, by Von Martius, and in the following year it was taken to the National library in Paris, where it now is. According to HARRISSE (*Cabots*, p. 153) the map was bought in 1844 of M. de Hennin for 400 francs. Cf. *Essai sur la bibliothèque du roi*, Paris, 1856, p. 285. D'Avezac has described it in the *Bulletin de la Société de Géographie*, 1857, p. 268, and Mr. Charles Deane has submitted it to a careful examination in the *Narrative and Critical Hist. of America*, iii. p. 20. Jomard has given a facsimile of it in his *Monuments de la Géographie*, pl. xx., without the marginal legends, which have never been published in full with any facsimile of the map, but they have lately been reproduced in a large and full-size photographic facsimile in 32 sheets, which in 1882 was made for American subscribers, through the mediation of the Hon. Robert C. Winthrop. There are copies of this facsimile in the following libraries: Harvard College, Boston Public, Massachusetts Historical, Boston Athenaeum, New York State (Albany), Philadelphia, American Antiquarian Society, Virginia Historical Society, and Long Island Historical Society; also in the Collection of Gen. John M. Brown in Portland. Cf. *Mass. Hist. Soc. Proc.*, xix. 387.

Reproductions on a reduced scale of the American parts of it are given in Stevens's *Notes*, pl. 4; Kohl's *Discovery of Maine*, p. 358; Jurien de la Gravier's *Les Marins du x^e et du xvi^e siècle*, Paris, 1879; Nicholl's *Life of Sebastian Cabot* (inaccurate

in the names); *Hist. Mag.*, March, 1868, in connection with a paper by J. C. Brevoort; *Narrative and Critical Hist. of America*, iii. 22; F. Kidder's *Discovery of North America by John Cabot*; Gay's *Pop. Hist. U. S.*, i. 193; Augusto Zeri's *Giovanni e Sebastiano Caboto*, Roma, 1881; and much reduced (the whole being given) in Daly's *Early Cartography*. A facsimile in colors of the North Atlantic parts, made by Pilinski, is given in HARRISSE's *Cabots*, with descriptions, p. 54.

It is to be remarked that the map has been the subject of some suspicion, at least so far as any immediate connection of Cabot with it goes, and the absence of publisher's name and the place of publication has added to the complications of the investigations about it. Its inscriptions are in Latin and Spanish; but Kohl has pointed out the improbability of its execution in Spain, where the authorities were averse to the publication of the charts of their discoverers. If the map was published in Belgium or Germany, Cabot, who was now in Spain, could hardly have had close connection with it, as its errors of Spanish and of other kinds would also indicate. HARRISSE, *Cabots*, p. 153, has pointed out that the map is mentioned by Livio Sanuto (*Geographia distincta in xii libri*, 1588, fol. 2); by Ortelius, in the list of maps in his *Theatrum* of 1570; by Sir Humphrey Gilbert (*Hakluyt*, iii. 24); by Richard Willes (*Eden's Hist. of Travayle*, 1577, fol. 232); by Hakluyt (*Principall navigations*, 1589, p. 511, and 1599, iii. p. 6); and by Purchas (*Pilgrimage*, 1625, iii. 807); though it may be doubted if all these references refer to this engraved map. HARRISSE, however, taking the diversities of the descriptions, supposes there were four editions of it, which he notes thus:—

1. In the Bibliothèque nationale, dated 1544.
 2. Seen at Oxford in 1566 by Nicholas Kochhaff and dated 1549.
 3. Engraved by Clement Adams and described by Hakluyt in 1589.
 4. Described by Purchas, which may be, however, much the same as one of the three already named.
- HARRISSE's conclusion (*Cabots*, p. 84) is, that Sebastian Cabot based his mappemonde on a Portuguese original, which was in turn an imitation of the Henri II. map, or of one very like it.

Münster had produced an edition of his *Cosmographia* at Basle in 1544, in German, with a map, facsimiles of which are given in the atlas of Santarem and (much reduced) in Lelewel. A copy of this 1544 edition is in the Lenox library.

One of the few exceptions of the Spanish custom of not printing navigators' charts is the *Arte de navegar* by Pedro de Medina, which first appeared in Spain at Valladolid in 1545, accompanied by a map, which showed the new world from Labrador to Peru. It is on folio xxii; while on xciii is a small spherical projection of the world, showing America vaguely drawn on the left. Medina was the official examiner of the pilots in the Spanish service, who sailed to the West Indies. The *Arte de navegar* is rare, and Muller puts the value of a copy at 200 florins and more. The *Carter-Brown Catalogue*, no. 137, shows a copy, and there is another in Harvard College library. Another edition appeared at Seville in 1563. The map here occupies folios vii. (verso) and viii. (recto), and is in part rubricated. (Leclerc, *Bibl. Americana*, 350 fr.) The book was translated into various languages; that into French being made by Nicolas di Nicolai, and published at Lyons in 1553, 1569, and 1576, and at Rouen in 1573. Nicolay gave a new map in 1553, which was repro-

duced imperfectly in the 1573 edition, which HARRISSE, *Cabots*, p. 240, mentions as an instance of Portuguese influence on French hydrography in the sixteenth century; but it also shows Nicolay's acquaintance with documents not known to Medina. The Italian version was made by V. Palentino de Corzuti, and appeared at Venice in 1554 and 1555. This 1555 Italian edition has a map on folio xxxiii (recto). Leclerc, *Bibl. Amer.*, no. 379 (40 francs); *Brinley Catalogue*, no. 43; *Carter-Brown Catalogue*, i. no. 204. The German by Coignet was published in 1576, and Frampton's English version came out in 1581. Kohl seems to be in error in saying that the earliest Spanish published map of America appeared in 1549 in Medina's *Libro de grandexas y cosas memorables de España*,—which had as he says an outline sketch of the new world in small compass, a similar representation appearing some years later (1554) in Gomara. The map in the *Libro* is the same as in the 1545 *Arte de navegar*, except that it is cut in two parts, and put on opposite pages, and the half showing America is eked out in a ruder way by an annexed block, which gives the rest of South America: this map is on folios 63 (verso) and 64 (recto); while the small spherical sketch to which Kohl refers is on another folio. This *Libro*, etc., is in Harvard College library. Kohl included the map under date 1549 in his Washington collection.

The 1546 edition of Honter's *Rudimenta Cosmographica*, which is a description of the world in verse, has an appendix of 14 leaves, containing an atlas, and including a representation of America, which is entitled "Universalis Cosmographia . . . Tiguri, J. H. V. E. [in a monogram] 1546." It is of a type common at a somewhat earlier period than we now considering, representing "Parias" as North America, and long and narrow, and separated by a strait from South America. The appendix was also issued separately. Sabin's *Dictionary*, no. 32794; *Carter-Brown Catalogue*, no. 143; Muller, *Books on America*, (1872), no. 763; (1877) no. 1457; HARRISSE, *Bibl. Amer. Vet.*, no. 271. The map was repeated in 1548, 1549, 1552, 1558, 1560 editions, and perhaps in others; but in the 1561 edition the shape of the new continent is improved. The 1552 and 1560 editions are in Harvard College library. The "Honter's globe of 1542," which is given in facsimile in Stevens's *Notes*, has the same configuration. The series of minor atlases which was begun with the *Almanach marin* and its small wood-cuts in 1546, and thus represented in Honter's *Rudimenta* in the same year, was followed in 1588 by the *Epitome* of Ortelius, of which there were various editions; and later by Pierre Heyns' *Miroir du Monde*, changed by Zacharie Heyns to *Epitome du théâtre*. In 1597 came La Haye's *Trésor des Chartes*, engraved by Hondius, Wright, and Kœrius. Lelewel, *Géog. du Moyen Age*.

The map (1546) in Vadianus's *Epitome* of 1548 is reproduced in Santarem's *Atlas*. Cf. *Carter-Brown Catalogue*, i. no. 151. It makes South America an island.

A portolano marked *Joham Freire a ses crades* (?) 46, was formerly in the possession of Baron Taylor, when Santarem described it in his *Recherches sur la priorité de la découverte de la côte occidentale d'Afrique*, p. 127, and *Hist. de la Cosmographie*, iii. introd. It passed next into Libri's collection, and was sold in his 1859 sale, as per *Catalogue*, London, 1859, no. 827; and is described by HARRISSE in his *Cabots*, p. 220.

Copies: (1) *Library of Congress*. (2) *Astor Library*. (3) *Carter-Brown Library*. (4) *The Henry C. Murphy Library*. (5) *Samuel L. M. Barlow*.

(6) *Jules Marcou* (Cambridge). (7) *Charles H. Kalbfleisch*.

References: *Library of Congress Catalogue* (1872), p. 287; *Carter-Brown Catalogue*, no. 150; HARRISSE, *Bibl. Amer. Vet.*, no. 285; Stevens, *Hist. Coll.*, i. no. 1556; Brunet, *Manuel*, iv. 956; *Supplément*, ii. 331; *Walckenaer Catalogue*, no. 2259; Leclerc, *Bibl. Amer.* (1878) *Supplément*, no. 2910; *Huth Catalogue*, iv. 1200; Muller, *Books on America* (1877), no. 2624; *Dufosse, Americana*, nos. 2972, 4871, 6876; Graesse, *Trésor de livres*, v. 502; Kohl, *Discovery of Maine*, 225, 233; Santarem in *Bulletin de la Soc. Géog.*, mai, 1847; Fabricius, *Bibl. Graec.*, lib. iv. p. 413; Raderius, *Commentatio de Cl. Ptol.*, 69; Zurita, *Di Marco Polo*, ii. 363; *Notizie di Jacopi Gastaldi*, Torino, 1881; Castellani, *Catalogo delle più rare opere geografiche*, Roma, 1876.

Quaritch prices it at £ 3 10s. and £ 5; an American catalogue in 1883 priced it at \$ 15.

1552.

Title: *Geographia Claudii Ptolemaei Alexandrini, Libri viii, partim a Bilibaldo Pirckheymero translatae ac commentario illustrati partim etiam Graecorum Antiquissimorumque exemplariorum collatione emendati atque in integrum restituti. His accesserunt Scholia, etc.* [five paragraphs, of which the last two are:]—

Tabula nova quae hactenus in nulla Ptolemaica editione visa sunt, per Sebastianum Munsterum.

Geographia descriptionis compendium, in quo varii gentium ac regionum ritus, mores atque consuetudines per eundem explicantur.

Cum Regiae Majestatis Gratia & Privilegio ad sexennium.

At the end of the epistola is:—

Basilia anno M.D.LII. Mense Martio. (Copied from the Whitney copy.)

Description: Folio. A portrait of Münster on the reverse of title. Münster's epistola, 2 leaves. Royal license, with a facsimile autograph, 1 leaf. De utilitate tabularum geographicarum, 3 leaves. One leaf blank. Index, with latitudes and longitudes, begins on *b*, ends on *l* 4. Index, pars secunda, ends on *p* 3 (not marked). One leaf blank.

Liber primus, begins on AA, ends on folio, following CC 4. One leaf blank. Liber ii. to viii., beginning DD, is pagged 1 to 149; pp. 150–155 being "Dimensionis Canon." Then follow the maps, and next, pp. 157–195, Appendix Geographica.

Maps: Fifty-four double-page woodcuts, sometimes colored,—the same as in the 1540–42–45 editions.

Those showing American are:—

1. "Tipus universalis." The same as in the 1540 and 1545 editions; but recut, with slight changes in names. The northern region called Bacalhos and Islandia in the earlier maps are here without name. The island "Thyle" is now "Island." The inscription on South America reads, "America seu Insula Brasili.".

2. "Novæ insulæ xxvi. Nova Tabula." The 54th map is the map, which Münster often used, showing both American continents. The designation on South America is inserted in German type, Die Nüw Welt, and on the reverse of the right-hand page is "Basileæ ex officina Henrichi Petri, mense martio, anno M.D.LII."

3. The map of "Dania et Scondia" shows a part of Grünland,—as in the earlier editions.

Copies: (1) *Library of Congress*. (2) *New York State Library*. (3) *Cornell University*, — formerly Charles Anthon's copy. (4) *The Henry C. Murphy Library*. (5) *Josiah D. Whitney*, — formerly in the Sobolewski library. (6) *Dr. E. B. O'Callaghan*, — sold with his library, in New York, in December, 1882.

References: *Library of Congress Catalogue* (1867), p. 332; *Leclerc, Bibl. Amer. Supplém.*, no. 2909 (100 francs); *Walckenaer Catalogue*, no. 2254; *Muller, Books on America* (1872), no. 2312 (18 Dutch florins); (1875) no. 3253 (32 florins); *Dufossé, Americana*, no. 9361 (70 franc); *Weigel, Catalog*, no. 1478 (36 marks); *Hoffmann, Lexicon bibliographicum*, iii. 501; *Götze, Merkw. d. Dresdn. Bibl.*, i. 318.

1555.

Title: [Same as the 1552 edition.]

Description: As in the 1552 edition.

Maps: Fifty-four as in the 1552 edition.

Copies:

References: *Muller, Books on America* (1875), no. 3254; (1877) no. 2626.

1559.

An edition without maps is cited by Santarem in *Bull. de la Soc. de Géog.*, 1837 (viii.), p. 176; and in his *Vespucius*, Childe's tr., p. 160.

1561.

Title: *La Geografia di Claudio Tolomeo Alessandrino, Nuovamente tradotta di Greco in Italiano, da Girolamo Ruscelli. . . con nuove & bellissime figure in istampe di rame, oue, altre alle xxvi Antiche di Tolomeo, se non son' aggiunte xxxvi altre delle moderne. Con la carta da navigare, & comodo d' intenderla, & d' adoperarla. Aggiuntovi un pieno discorso di M. Gioseppe Moletto Matematico. . .* [Cross held by two hands stretched from clouds, and wound with a snake, and motto "Vincent"] *In Venetia, Appresso Vincenno Valgrisi, M.D.LXI.* (Copied from the Boston Public Library copy.)

Description: Small quarto. Title and three preliminary leaves; text, pp. 1-358; II Registro, one leaf; title, "Expositioni et introductioni universali, di Girolamo Ruscelli sopra tutta la Geografia di Tolomeo. . . [same wood-cut as on title.] In Venetia, M.D.LXI." — one leaf; text, 27 leaves; maps on double leaves, with descriptions on back; index of names, 24 leaves.

Maps: Engraved on copper, on double leaves, with text on the back. They are: Ptolemaei typus; orbis descriptio, — two hemispheres; Carta Marina nuova tavola; 18 maps; nuova tavola settentrionale; 36 maps (including Schonladia nuova), ending, "il fine di tutta la geografia di Tolomeo"; six American maps, — in all sixty-four maps.

Thomassy, *Les papes géographes*, p. 65, has pointed out how the maps "ont la plus grande analogie avec celles de la galerie géographique de Pie iv." Cf. *Lelewel*, ii. 170.

Thomassy also, p. 26, refers to a planisphere of Ruscelli, 1561, "inédit, conservé au musée de la Propagande."

The maps of interest in American study are these:
I. "Orbis descriptio," — the western hemisphere.

Greenland is marked "Terra de lavorad," which is separated from Lapland by a narrow strait. Newfoundland and the St. Lawrence Gulf are brought out, but the St. Lawrence River takes the form of a long, narrow, winding strait, which sweeps round from the northwestern corner of the gulf, and comes out somewhere on the Maine coast. The western parts of North America are connected doubtfully with Asia, an uncertain coast being marked "Littus incognitum." South America has too great breadth in the southern part, where a part of the western coast is marked "Littus ignotum." Magellan's Strait cuts off a land with an undefined southern border.

To compare this with other general maps of the western world issued since the previous Italian edition of 1548, the most important of which were printed or made also in Italy:—

The general map by Gastaldi which accompanied the third volume of Ramusio's *Delle Navigazioni et Viaggi*, which was issued at Venice in 1556, is thought to have been made five or six years earlier (1550), and was repeated, as were the other maps of the volume, in the second issue of 1565. The coastline from Labrador to Florida has a uniform trend, except a depression nearly filled by a large island, which is all it shows of the geography of the St. Lawrence river and gulf, fifteen years after Cartier had mapped it. On the west, the coast ceases to be defined just north of the Californian peninsula. Cf. *Harrisse, Cabots*, p. 236, who mentions another map of Gastaldi, which is very rare, and of which there are two copies in the Paris Library.

Of Ramusio, there is a portrait in the edition of *Il Viaggio di Giovan Leone*, printed at Venice in 1837. Tiraboschi's account of this famous collection of voyages is translated in *Clarke's Maritime Discovery*, p. x. Cf. *Carter-Brown Catalogue*, i. 195; *Harrisse, Bibl. Amer. Vet.*, p. 223.

Dated in 1550 and 1553 are two portolanos signed by Pierre Desceliers, one of which is now in the British Museum, and the other is in Vienna. The names are said to be essentially Portuguese. On Labrador we read: *Terre de Jhan vaaz*, and *G. de manuel pinho*. The St. Lawrence is not named, but the Bay of Chaleur bears that designation. Cf. *Brit. Mus. Cat. of MSS.* no. 24065; *Harrisse, Cabots*, 230; *Bull. de la soc. géog.*, September, 1852, and September, 1876.

A MS. parchment chart of the Atlantic, bearing this inscription, *Diego gutierrez Cosmographo de Su magd. me fizo en sevilla Año de 1550* is described in *Harrisse, Cabots*, p. 232, who calls it a map much behind its date, and conceives it may possibly be a copy in essentials of the lost map of Chaves (1536). It is a question whether the present may be the work of the father or son of the same name. It is preserved in the *Dépôt des Cartes de la Marine* at Paris.

A map known to be by the younger Diego Gutierrez, *America sive quarta orbis partis, nova et exactissima descriptio. Hiero Cock excude [Antwerp]*, 1562, in six folios, was sold by Edwin Tross to the British Museum, where it is numbered "map 6918-18." *Harrisse, Cabots*, p. 152.

Harrisse, Cabots, p. 238, puts, under *Circa 1553*, a fine parchment planisphere, neither signed nor dated, which is preserved in the *Dépôt des Cartes de la Marine* at Paris. It shows the English standard on Labrador (Greenland), the Portuguese on Nova Scotia, and the Spanish at Florida. The western coast is continuous from Cape Horn to California.

A map of André Thevet, in a projection of two hemispheres, dated 1554, is cited by D'Avezac, *Coup*

d'œil historique sur la projection des cartes, Paris, 1863, p. 73, and HARRISSE, *Cabots*, p. 251.

Bellerio, the publisher of Antwerp, inserted in 1554 a small wood-cut map in an edition of Gomara's *Mexico*, and in his *Historia General de las Indias*, which appeared that year. This map did also service for some years in other Antwerp publications, —namely, the edition of Cieça de Leon's *De la Chronica del Peru*, of 1556; Darinel de Tirel's cartographical poem, *La Sphere des deux Mondes*, of 1555, and the Levinus Apollonius *De Peruvia*, etc., of 1565-67. The map is also sometimes found in Eden's *Decades of the Newe Worlde*, 1555. Cf. *Mapoteca Colombiana*, p. 2; *Huth Catalogue*, ii. 605; Stevens, *Bibl. Geog.*, no. 1987; O'Callaghan, *Catalogue*, no. 613; Rich, *Catalogue* (1832) no. 30; *Carter-Brown Catalogue*, i. nos. 201, 217. The Newfoundland coast is called "Bacallaos," with "C. Raso" at the southern end of it, but it is not an island, rather a peninsula, separated from Cape Breton, also part of the main, on the west by a deep bay, off whose mouth to the south lies the island of "S. Juan."

Gomara's *Historia General de las Indias*, was published, the second part in 1552, and the first part in the following year (1553). It was accompanied by a map of the Indies. Cf. *Carter-Brown Catalogue*, i. no. 177; *Sunderland Catalogue*, iii. 7575; Leclerc, *Bibl. Amer.*, nos. 243, 2779. Sabin, *Dictionary*, vii. p. 305, —a Gomara bibliography by J. Carson Brevoort. This first edition, which appeared at Saragossa and is now priced at 800 francs, was followed by the second at Medina in 1553, and a third at Saragossa in 1554, before it appeared at Antwerp, likewise in 1554, with the Bellerio map. The map of the Spanish editions is exceedingly rare.

A map of the world by Framezini was engraved in 1554 by Julius de Musis.

In the collection of M. le Comte Doria at Venice, there is one of Baptista Agnese's atlases, "Baptista Agnese in Venezia al 1^o Settembre 1553." Cf. HARRISSE, *Cabots*, p. 189; G. Berchet, *Portolani esistenti nelle principali biblioteche di Venezia*, 1866, p. 4.

An atlas of Baptista Agnese of 1554, preserved in the Biblioteca Marciana at Venice, was issued in photographic facsimile at Venice in 1881, under the editing of Professor Theobald Fischer of Kiel. It has three sheets of interest to the student of American cartography:—

No. 4. North America, south of the Penobscot and the Gulf of California, and the west coast of South America to 15° south; then blank till the region of Magellan's Straits is reached.

No. 5. East coast of North America from Labrador south; Central America, South America, all of east coast and west coast as in no. 4.

No. 33. The world much as in nos. 4 and 5.

The atlas is marked: *Baptista Agnese facit [sic] Venetis anno Domini 1554 die 15 julii*, as quoted in Zurla, *Di Marco Polo*, 1818, ii. 369; but the Marciana copy is inscribed *no [sic] Baptista palenese [sic] fecit venetiis anno domini 1554 die 20 Octobris rab [sic]*. HARRISSE, *Cabots*, p. 189. This fac-simile is in Harvard College Library.

The *Labanoff Catalogue*, 1823, no. 2067, gives another portolano of Agnese of 1555; and one marked *Hecho en Venecia en 1559 por Baptista Agnese [sic]* is given by HARRISSE, *Cabots*, p. 189, as in the collection of Perez Junquera at Madrid.

There is in the library of the Minister of War in Paris an elaborate portolano: *Cosmographie universelle selon les Navigateurs, Tant anciens Que modernes: Par Guillaume Le Testu pilote en La mer du ponent: De La ville Françoise de Grace*; and on a later leaf, "Ce livre fut acheve Par Guillaume Le

Testu, Le Cinquiesme Jour dapuril 1555 Avant pasques." HARRISSE, *Cabots*, p. 242, speaks of it as an adaptation of a Portuguese atlas, with the addition of some French names. The northern regions of North America are called "Francica." There is a later map by Testu, dated May, 1566, preserved in the cartographical bureau of the Ministry of Foreign Affairs in Paris.

Wuttke in his *Geschichte der Erdkunde in the Jahresbericht* of the "Verein für Erdkunde in Dresden," 1870 (pp. 62, 63), refers to and sketches the American maps in two atlases, associated with Gifalso, preserved in the Palazzo Riccardi at Florence, and also to another atlas of about 1556-1566, resembling those in the Riccardi collection. One of them, dated 1550, connects the west coast of America with the southern coast of Zanga and China, and gives a deep gulf on the eastern coast of the United States, a region named "Terra di Licenciado." Further north is "Terra di Dertoni" [? Bertoni, i. e. Bretons], and still farther north is "Otachil." Another of the maps gives a similar Asiatic prolongation to the California coast line, with a deep indented bay at the north, perhaps intended for Hudson's Bay. From the same source Wuttke gives three maps of the sixteenth century, showing both Americas. One shows the whole of South America and the east coast of North America, and puts "Ispagna nova" in the northeast, neighboring to "Terra di Bacalos" and "Terra di la S. Berton." A second shows North America, both coasts; but South America is left undrawn in the central parts of both coasts. A third completes the outline of South America, and carries the western coast of North America just above the "Mare Vermiglio" (Gulf of California). These several sketches are given in plates vi., vii., and ix. of the *Jahresbericht* (1870) of the Dresden "Verein für Erdkunde."

The map in the 1555 edition of Grynæus's *Novus Orbis*, with its recurrence to a state of geographical knowledge at least forty years earlier, can hardly be said to represent any reactionary views, but is rather but the heedless reproduction of the by-gone beliefs, shown in Münster's earlier map of 1532, already described in this bibliography. The only variation is in the different size of the geographical names. This map had already done service also in the 1537 edition.

The folding wood-cut map of the two Americas by Gaspar Vopelius is very rare, and has been produced in fac-simile from the British Museum copy through Harris's skill by Henry Stevens. It first appeared in Girava's *Dos Libros de Cosmographia*, published at Milan in 1556. The Harvard College copy lacks the map. The Carter-Brown copy (*Catalogue*, i. no. 209) has it.

The next edition of Girava, *La Cosmographia y Geographia*, appeared at Venice in 1570; but it is not certain that the map reappeared in it, though collectors insert sometimes the fac-simile of it. Stevens, *Hist. Coll.* no. 241. The Harvard College copy lacks it. Sabin, *Dictionary*, vii. no. 27,504, gives only this edition, and says it should have a map.

There is in the British Museum (*Catalogue of MS. maps*, 1844, vol. i. p. 27) a portolano marked "Diegus Homen, Cosmographus, fecit hoc opus anno salutis 1558," which has the following American maps:—

No. 4. The world.

No. 10. East coast of North America.

No. 11. South coast of North America and east coast of South America.

No. 12. North and east coast of South America.

Kohl's Washington collection shows a Diego Homen map of 1558.

Harrisse, *Cabots*, p. 243, cites also of this Portuguese map-maker, who was settled at Venice, the following:—

An atlas, apparently unfinished, resembling that in the British Museum, and preserved in the Bibliothèque Nationale at Paris, and dated about 1558.

An atlas in the Biblioteca Marciana, inscribed "Diegus Homem Cosmographus me fecit anno domini 1560."

Atlases of 1558 preserved in the library of the Arsenal at Venice; of 1559, in the Paris library; of 1561, in the library at Parma; of 1569, but not showing America; and of 1574, in the Paris library.

Harrisse, *Cabots*, p. 245, also cites a mappemonde of Andreas Homo dated 1559,—"Universa ac Navigabilis totius Terrarum Orbis Descriptio cum omnibus portubus ynsulis fluviiis. . . . Andreas Homo, Cosmographus Lusitanus me faciebat. Antwerpiae anno Millesimo Quingentesimo Quinquagesimo nono." This like the work of Homem was derived largely from Portuguese sources. It is preserved in the Department of the Ministry of Foreign Affairs at Paris.

Harrisse, *Cabots*, p. 245, also cites a fragment of a Spanish map, which shows a part of the American coast from Cape Breton south. It was recently discovered, and has been reproduced in Duro's *Arca de Noé*, Madrid, 1881, from the original in the library of the Academy of History at Madrid. Though of Spanish make, it is of Portuguese origin; and perhaps as late (1603) as Harrisse puts it, though Duro seems to consider it earlier.

A more accurate delineation of America than had appeared in any of Honter's earlier publications, appeared in 1561 in the Basle edition of his *De Cosmographia rudimentis*.^{*} Muller, *Books on America* (1877) no. 1459.

2. "Carta Marina nuova tavola." This is a reproduction of the chart no. 60 in the 1548 Ptolemy, and its view of the identity of North America and eastern Asia had the year before (1560) been taken by Paulo de Furlani, the Italian geographer, in his map of the world, which turned the California coast with a westerly trend, making it unite with the shores of Quinsai and Mangi. This Furlani map is included in the Kohl collection at Washington.

3. "Septentrionalium Partium nova tabula,"—a reproduction of the Zeni map, but varying from it in the extension of the sea north of Norway, while in the original a coast is drawn connecting Norway with Greenland, and marked "Mare et terre incognite."

This map had originally appeared three years before in a little book with the following title:—

De i commentarii del Viaggio in Persia di M. Caterino Zeno il K. & delle guerre fatte nell' Imperio Persiano, dal tempo di Ussuncassano in qua, libri due. Et dello scoprimento dell' Isole Frislanda, Eslanda, Engrouelanda, Estotiland & Icaria, fatta sotto il Polo Artico, da due fratelli Zeni, libro uno. Con un disegno particolare di tutte le dette parte di Tramontana da lor scoperte. Venetia, 1558.

It purported to be printed and the map to be drawn from old family papers of the Zeni family, which recorded a visit to the northern parts of the Atlantic in 1380,—thought to be a mistake by R. H. Major for 1390. The text and the map introduced a large island called "Frislanda," which kept a place for a long time in the succeeding geographical views. Admiral Irminger has contended that this island was Iceland, and R. H. Major argues for the Farøe Islands, which might have been incorrectly conceived to be represented as a single large island instead of

a group, on the alleged original draft, used when in a decayed condition by the compiler of the printed map. (*Royal Geog. Soc. Journal*, 1879, vol. xlix. 398, 412). The region called "Estotiland," supposed to be on the American coast somewhere south of Greenland, also took a firm hold of the cartographical sense, and in later maps it designated sometimes the main land and sometimes an island off the coast. Eugène Beauvois in *Les Colonies Européennes du Markland e de l'Escociland*, Nancy, 1877, and also in the *Compte-Rendu* of the Congrès des Américanistes, makes it include Eastern Maine, New Brunswick, and a part of Lower Canada. Santarem in the *Hist. de la Cartographie*, iii. 141, says that an island in the Baltic is called "Y Stotlandia" in Giovanni Lear-do's mappemonde of 1448, preserved at Vicence.

The influence of the map on subsequent cartography will be referred to later in connection with Mercator's great map of 1569; the *Theatrum Orbis terrarum* of Ortelius, 1570; Lok's map of 1582, as given in Hakluyt's *Divers Voyages*; the maps in Wytfliet's *Continuation* of Ptolemy in 1597, and in the London edition of Linschoten, 1598.

The original *De i Commentarii* of 1558 has become a rare book worth, without the map, a guinea fifty years ago (Rich, *Catalogue* of 1832, no. 38), but now priced at 60 to 75 francs. (Leclerc, *Bibl. Amer.* no. 3002; Dufosse, *Americana*, no. 4,965; Beckford, 1883, Part iv. no. 644. Tross advertised a copy with the map in 1882 at 150 francs. The Carter-Brown copy has the genuine map (*Catalogue*, i. no. 226), but the Harvard College copy has it in facsimile. The *Murphy Catalogue*, nos. 2798, 2799, shows copies with the genuine map and with a facsimile map.

The map measures 12 X 15½ inches.

After the narrative had been given in the Ptolemy now under consideration, that of 1561, and again in the edition of 1562; and had been given further prominence in the second volume of Ramusio (1559, 1574, and 1583); in Hakluyt's third volume (1600); in Megiser's *Septentrio Novantiquus*, Leipsig, 1613 (Cf. *Murphy Catalogue*, no. 1655), and in Capel's *Vorstellungen des Norden*, Hamburg, 1676, the interest in it died out till revived in 1784 and 1786, by the publication in German and English of those respective dates of J. R. Forster's *Discoveries in the Northern Regions*, who urged belief in the story,—a view also taken in 1794 by Eggers, in his *True site of old East Greenland*, published at Kiel. Buache the geographer had also discussed the question in his *L'Île de Frislande*, in the papers of the Royal Academy of Sciences, 1784. A more important urging in behalf of the narrative took place when Cardinal Zurla published at Venice in 1808 his *Dissertazione intorno ai viaggi e scoperti settentrionali di Nicolo e Antonio Frat. Zeni*,—a subject again treated in his *Di Marco Polo e degli altri Viaggiatori Veneziani piu illustri dissertazioni*, published also at Venice in 1818. This work was accompanied by a reproduction of the original map and by a modern map, upon which the supposed track of the discoverer was traced.

In 1831, Biddle, in his *Memoir of Sebastian Cabot*, maintained the theory of an imposition,—a view which was further enforced in 1835 by Zahrtmann in the *Royal Geog. Soc. Journal*, v. 102, and by George Folsom in the *North American Review*, July, 1838. In 1845, J. H. Beedsdorff discussed the subject in *Grönland's Historiske Mindesmaerker*. La Roquette furnished the discussion in Michaud's *Biographie Universelle*.

For nearly twenty years there was little attention paid to the Zeni narrative, till Mr. Major revived the discussion by the publication of it, with a translation

and commentary, through the auspices of the Hakluyt Society in 1873. In the same year (1873) he also printed a paper in the *Royal Geog. Soc. Journal*, on "The Lost Colony of Greenland," which likewise involved the question; and in the next year he epitomized his views in the *Proceedings* (October, 1874) of the Mass. Hist. Society,—each of his papers being accompanied by the map.

In Mr. Major's judgment, the good parts of the map are of the 14th century gathered by the ear on the spot; while the bad was of the 16th century, misapprehended from the ancient narrative by the young Zeno, who patched up the map and text. Major also claims that confirmation of the Zeno narrative is gained from Ivan Bardsen's chorography or sailing directions for reaching Greenland from Iceland, and that it enables the investigator to fix the lost colony at Cape Farewell. Sir H. C. Rawlinson comments on Major's views in his address before the Royal Geog. Society, printed in its *Journal*, 1873, p. clxxxvii.

Professor Konrad Maurer also, in the same year (1873), maintained that the Zeno of 1558 compiled the narrative from various sources.

The more recent discussions have been by De Simoni in the *Giornale Ligustico*, 1878; by Fr. Krarup of Copenhagen in the *Geografisk Tidsskrift*, ii. 145 (1878), in a paper called, "Zeniernes Rejse til Norden, et Tolkning Forsoeg," which is accompanied by two maps; by Paul Gaffarel in the *Revue de Géographie*, Oct. and Nov. 1880; by Ruge in his *Geschichte des Zeitalters der Entdeckungen*, published at Berlin in 1881, accompanied by the map; by A. E. Nordenskiöld, in his *Om bröderna Zenos resor och de äldsta Kartor öfver Norden*, Stockholm, 1883, in which there are facsimiles of the original map, and of that in the Ptolemy of 1561; and by Professor Dr. Steenstrup, in a paper, "Zeniernes Reiser i Norden," in the *Aabgøder of the Royal Society of Northern Antiquaries*, Copenhagen, 1883. In this last contribution is a reduction of the Zeno map. This paper has also a reproduction of the Zeno Frisland on a large scale, comparing it with a modern map of Iceland; and likewise it gives the northern parts of the 1558 map on a large scale. Dr. Steenstrup reviews the opinions of Major, Krarup, and Irminger.

Of the map Henry Stevens in his *Bibliotheca geographica*, no. 3,104, says that "if it be genuine, the most of its geography is false, while a part of it is remarkably accurate." For instance, the delineation of Greenland was far more accurate than any that had appeared up to 1558.

There are, besides those already mentioned, other facsimiles or reproductions of the original map, mostly reduced in size, in the *Annales des Voyages* of Malte Brun, who is a believer, as is Lelewel, in his *Glog. du Moyen Age*, ii. 169, and iii., where will be found "Tavola di navigare di Nicolo et Antonio Zeni et les Cartes des régions septentrionales a l'époque de sa publication en 1558." Cf. also Vol. iv. 85. Again others in the *Carter-Brown Catalogue*, i. p. 211; Kohl's *Discovery of Maine*, p. 97; Bancroft's *Central America*, i. 81; Gay's *Pop. Hist. U. S.*, i. 84.

George E. Emery of Lynn issued in 1877 a facsimile of the map, with identifications of the localities.

Cf. also De Costa's *Northern in Maine*; Asher's *Henry Hudson*, p. clxiv; Humboldt's *Examen Critique*, ii. 120; Gaffarel's *Étude sur l'Amérique avant Colomb*, etc.; Buache's *Frislande*.

In an anonymous sea-chart of perhaps the 15th century, in the Ambrosian library at Milan, there is an island "Fixlanda" in a position corresponding to

Frislandia of the Zeno chart. (*Studi biog. e bibliog. della soc. geog. ital.* ii. no. 400). In an anonymous Catalan chart of the end of the fifteenth century, the same island is called apparently "Frixlanda." (*Ibid.* no. 404).

4. "Schonlandia," the northwestern part of Europe. A long triangular island, "Thyle," represents Iceland. North of it a land partly surrounded by a "mare congelatum," and representing Greenland, bears two small circles (towns) named "Scalholdin" and "Holensis." The land extends towards Norway, from which it seems to be separated by a narrow strait. Much in the same way Ziegler in his *Schonlandia* (a part of his general work on Scandinavia and Palestine, printed at Strasbourg in 1532 and again in 1536) gives in his accompanying map in the northwest corner a land which he calls "Gronlandia," making "Terra Bacallaos" the eastern part of it.

5. "Tierra nova,"—South America, better shaped than in no. 1, and without any doubtful part of its coast. The Amazon is made to rise west of the mouth of the La Plata.

What we now know as the Falkland Islands are called by the name of Sanson, a navigator of whom nothing is known. They are called "Ys de Sansone" in the Cabot mappemonde of 1544. Thomassy, *Les Papes géographes*, p. 118, cites a map of unknown authorship, which gives the same designation to these islands. This last map is also of interest as showing what part of America was held at about this time to be cut off for Portugal by the demarcation line of Alexander VI.

6. "Nueva Hispania." Shows Florida and the isthmus on the east, and the peninsula of California on the west. The Gulf of California is called "Mar Vermeio." The Gulf of Mexico has four coast streams, one of which rises in the lake, where the City of Mexico is situated.

This may be compared with the map of Temistitan in Ramusio.

7. "Tierra nueva." The eastern coast of North America from Labrador to 34° north latitude. It is reproduced in Kohl, *Discovery of Maine*, p. 233, and in Lelewel's *Moyen Age*, p. 170. Cf. Harriette, *Cabots*, p. 237.

A hook probably representing Cape Cod is "C. de s. Maria;" Maine is "Larcadia;" New Brunswick is "Tierra de Nurumberg;" Newfoundland is broken into a group of islands which fill what stands for the Gulf of St. Lawrence; but the river of that name makes a strait which with a sweep to the northwest connects the gulf with what may stand for Passamaquoddy Bay. North of this strait is "Tierra del Bacallaos."

This map of Ruscelli bears a close resemblance to the map of New France given in Ramusio, iii. p. 425, which represents Newfoundland as a group of islands, and no further notices Cartier's discoveries than in giving a strait separating the group of islands from the main, which is bisected by a river, which cuts off a region that may stand for New Brunswick and Nova Scotia, which bears the name "La Nuova Francia," with "Terra de Nurumbega" filling up the Bay of Fundy. A sketch of the Ramusio map is given in Kohl's *Discovery of Maine*, p. 227. It is ascribed to Jacomo di Gastaldi, and is supposed to have been made in 1550. Cf. Harriette, *Nouvelle France*, no. 292.

Harriette, *Nouvelle France*, no. 188, cites a map of the northeast coasts of North America of about the

middle of the century, preserved in the Musée Correr at Venice.

Kohl, *Discovery of Maine*, p. 317, quotes a map by Nicollo del Dolfinato, which appeared in *Navigazioni del Mondo nuovo*, Venice, 1560, and gives a sketch of the coast from Florida to Labrador.

Kohl, *Discovery of Maine*, p. 377, gives a sketch of the eastern coast of North America from Florida to Greenland, drawn after Homem's Portolano, already referred to. The coast from Maine south is very badly drawn; but one of the earliest plots of the Bay of Fundy is given. The Gulf of St. Lawrence spreads curiously westward through an archipelago into a northern sea. Homem was a Portuguese map-maker, and clearly a believer in a northwestern transit to India.

The plate in Ramusio, p. 447, called "Hochelaga" (Montreal) is a bird's-eye view of an Indian settlement. It is reproduced in Charton's *Voyageurs*, vol. iv.

8. "Brasil." The eastern part of South America, with the north at the right. Cf. the maps of "Brasil" in Ramusio, pp. 428, 431.

9. "Isola Cuba nova."

10. "Isola Spagnola nova."

The British Museum MSS. Catalogue, no. 27,303, also shows a chart of the American coast line by B. Lopez; and Kohl in his Washington Collection cites a Mercator map of 1555, and one by Fr. Camocio of 1560.

The maps of this edition of Ptolemy were repeated in the editions of 1562, 1564, and 1574.

Copies: (1) *Library of Congress*. (2) *Boston Public Library*,—shelf-mark, 4152.2. (3) *Carter-Brown Library*,—but not in its catalogue. (4) *The Henry C. Murphy Library*. (5) *J. Hammond Trumbull*.

References: Græsse, *Trésor de livres*, v. 502; *Library of Congress Catalogue* (1867), p. 332; Stevens, *Hist. Coll.*, i. no. 679; *Walckenaer Catalogue*, no. 2260; Dufossé, *Americana*, nos. 2973, 4872 (22 francs); Weigel, *Catalogue*, no. 1482 (15 marks); Quaritch, *Catalogue* (1880), p. 1155; Kohl, *Discovery of Maine*, 297; Lelewell, *Glog. du Moyen Age*, ii. 170; *Murphy Catalogue*, no. 2068. A fine copy was priced in Italy in 1883 at 24 lire.

1562.

Title: *Geographia Cl. Ptolemæi Alexandrini olim a Bilibaldo Pirckheimerio trāslata, at nunc multis codicibus græcis collata, pluribusque in locis ad pristinum ueritatem redacta a Iosepho Moletio mathematico. . . . Adsumt lxxiii Tabula, xxvii nempe antiqua & reliqua nova, quæ totam continent terram, nostra, ac Ptolemæi ætati cognitam. Typisq; æneis excussæ. Indices rerum quæ tractantur copiosissimi.* [Woodcut,—two hands sustaining a cross, with serpent wound about it, and the word "Vincent."] *Venetis, apud Vincentium Valgrisiū. MDLXII.* (Copied from the Harvard College copy.)

Description: Quarto. Title and three preliminary leaves, including dedication by Moletius to Cardinal Aloysius Cornelius, the last page blank. Liber primus, pp. 1-112; liber secundus, etc., pp. 1-286; 64 maps, of which six are of America, with descriptions; index capitum, etc., 31 unnumbered leaves; errorum recognitio, one page, reverse blank.

Maps: Same as in the 1561 edition.

Copies: (1) *Library of Congress*. (2) *Carter-Brown Library*. (3) *The Henry C. Murphy Library*. (4) *James Carson Brevoort*. (5) *Samuel L. M. Barlow*. (6) *Harvard College Library*,—lacks the maps.

References: *Library of Congress Catalogue* (1867), p. 332; *Carter-Brown Catalogue*, no. 239; Græsse, *Trésor de livres*, v. 502; *Walckenaer Catalogue*, no. 2255; *Sunderland Catalogue*, iv. 10,355; Stevens, *Hist. Coll.*, no. 1557; Muller, *Books on America* (1875), no. 3255; (1877) no. 2627; Weigel, *Catalogue*, no. 1479; *Murphy Catalogue*, no. 2059.

1564.

Title: *La Geografia di Claudio Tolomeo, Alessandrino, nuovamente tradotta di Greco in Italiano da Ieronimo Ruscelli. . . . Aggiuntovi un pieno discorso de M. Giosepe Moletio Matematico. . . . Et con una nuova & copiosa Tavola de nomi antichi, dichiarati co i nomi moderni & con molte altre cose utilissime & necessarie, che ciaduno leggendo potrà conoscere. In Venetia Appresso Giordano Ziletti, al segno della Stella M.D.LXIIII.* (Copied from the Carter-Brown Catalogue.)

Description: Quarto. Title and five preliminary leaves; text, 358 pages; with 28 copper-plate maps, accompanied by descriptions.

Maps: Twenty-eight in number, copper plate, being the old part of the 1561 and 1562 editions.

Copies: (1) *Carter-Brown Library*. (2) *Samuel L. M. Barlow*,—bound with the modern part.

References: *Carter-Brown Catalogue*, no. 251, 252; Dufossé, *Americana*, nos. 2974, 4873, 7413.

1564.

Title: *Expositioni et Introductioni universali Di Ieronimo Ruscelli sopra tutta la Geografia di Tolomeo. Con xxxvi nuove Tavola in istampe di rame, così del mondo conosciuto da gli antichi, come del nuovo. Con la carta da nauicare, & con più altre cose intorno alla cosmografia, così per mare, come per terra. Con privilegio dell' Illustrissimo Senato Veneto, & d' altri Principi per anni xv. In Venetia, Appresso Giordano Ziletti, al Segno della Stella, MDLXIIII.* (Copied from the Barlow copy.)

Description: Quarto. Title; 27 unnumbered leaves; maps with descriptions; "Discorso di M. Gioseppè F. Morando," 47 pages, numbered; index, 24 leaves.

Maps: Thirty-six copper-plate maps, with description, being the modern part of the maps in the 1561 and 1562 editions.

Copies: (1) *Carter-Brown Library*. (2) *S. L. M. Barlow*,—bound with the ancient part.

References: *Carter-Brown Catalogue*, i. no. 252.

*. These two parts of the 1564 edition are often found together, as one work, counterparting, as far as the 64 maps go, the editions of 1561 and 1562.

1568.

An edition (Venice) is cited by Santarem in *Bull. de la soc. de Glog.*, 1837 (viii.), p. 176; and in his *Vespucius*, Childe's tr., p. 160.

1571.

According to Lelewel, *Géog. du Moyen Age*, ii. 209, Henricus Petrus of Basle gives the maps of Ptolemy engraved on wood, in his edition of Strabo.

1574.

Title: *La Geografia di Claudio Tolomeo, già tradotta di Greco in Italiano da M. Gier. Ruscelli & hora in questa nova editione da M. Gio. Malombra riconetta & purgata. Con l'Esposizioni del Ruscelli. Tavola de' Nomi antichi dal Malombra. Et con un Discorso di Moletto. In Venetia, Giordano Ziletti, 1574.*

Description: Small quarto. Title and 7 preliminary leaves; Tavola, 32 leaves, the last blank; text, 350 pages; 27 maps, each on two leaves, with text; Expositioni, 28 leaves, the last blank; 37 maps; Discorso di Moletto, 65 pages.

Maps: The same as in the editions of 1561 and 1562.

Copies: (1) *Library of Congress*. (2) *Philadelphia Library*, — bequeathed by the Rev. Samuel Preston, of England, in 1804. (3) *Carter-Brown Library*, — though not in its Catalogue. (4) *The Henry C. Murphy Library*. (5) *Astor Library*. (6) *Trinity College*, Hartford, bought at the J. J. Cooke sale, 1883 (*Catalogue*, ii. no. 1947), for \$31.00.

References: *Library of Congress Catalogue* (1867), p. 332; Stevens, *Hist. Coll.*, no. 680; *Walckenaer Catalogue*, no. 2261; Dufosse, *Americana*, nos. 2975, 4874; *Philadelphia Library Catalogue*, p. 614; *Astor Library Catalogue*, p. 1525, where the date is wrongly given 1573; *Murphy Catalogue*, no. 2070.

1575.

An edition (Venice) with maps is cited by Santarem in *Bull. de la soc. de Géog.*, 1837 (viii.), p. 176; and in his *Vespucius*, Childe's tr., p. 160.

1578.

Title: *Tabula Geographica Claudii Ptolemæi ad mentem auctoris restituta & emendatæ Per Gerardum Mercatorem.* [Ed. cura A. Mylii.]

Colophon: *Colonia Agrippina typis Godefridi Kempensis. Anno Virginiei partus M.D.LXXVIII.* (Copied from the *Huth Catalogue*.)

Description: Large folio. Engraved title and preface, 4 leaves; 2 leaves; A-Cc in twos; map of Egypt between M and N; index a-hi in twos. Some of the copies have no "privilege."

Maps: The first edition with Mercator's series of maps, 29 in number, engraved on copper, and usually colored, confined to the old world.

Lelewel, *Géog. du Moyen Age*, ii. 190, indicates the discredit into which the Ptolemean system fell, after the advent of Mercator.

Copies: (1) *The Henry C. Murphy Library*. (2) *James Carson Brevoort*, — a copy which was originally Mercator's own, and has attached to it the only copy known of Mercator's double-heart projection of the map of the world, published by him in 1538, when twenty-eight years old. The volume has a MS. inscription on the title: "D. Lollio Aedama amico sumnopere colendo Gerardus Mercator, dd."

References: Raemdonck, *Mercator*, 250; *Huth Catalogue*, iv. 1200; Quaritch, *Catalogue* (1880), 948 (35 sh.); Muller, *Books on America* (1875), no. 3256;

(1877) no. 2629; Charles P. Daly's *Early Cartography*, 35, 38; E. F. Hall's *Gerard Mercator*, in *Bulletin of the American Geog. Soc.* 1878, p. 173, with Mr. Brevoort's appendix; *Murphy Catalogue*, no. 2059.

1582.

An edition (Basle) is cited by Santarem in *Bull. de la Soc. de Géog.*, 1837 (viii.), p. 176.

1584.

Title: *Cl. Ptolemæi Alexandrini, Geographia libri octo, recogniti iam et diligenter emendati cum tabulis geographicis ad mentem auctoris restitutis ac emendatis, per Gerardum Mercatorem, Illustriss. Ducis Cluensis etc Cosmographum Cum gratia & Privilegio sac. Caes. Maies. Cat. M.D.LXXXIV.*

Colophon: *Colonia Agrippina typis Godefridi Kempensis. Anno Virginiei partus, M.D.LXXXVIII.* (Copied from the Boston Athenæum Copy.)

Description: Large folio. Title engraved, including a vignette map of the Ptolemy world, one leaf; inscription to Abraham Ortelius by Arnoldus Mylius, dated "Coloniae Calendis Iulii, Anno D. 1583," one leaf; text, pp. 1-108; index, 15 leaves; one leaf blank; 28 maps, double-sheet, with text on back, with one (appendix) map; Mercator's Emendations, 4 leaves; index of names, 16 leaves, with colophon on reverse of the last.

Maps: Pertain to the old world only, being the same as in the 1578 edition.

Copies: (1) *Yale College Library*, — lacking the maps. (2) *Boston Athenæum*, — bought in 1847; has a few MS. notes. (3) *Baltimore Mercantile Library*. (4) *The Henry C. Murphy Library*.

References: *Boston Athenæum Catalogue*, p. 2439; *Walckenaer Catalogue*, no. 2256; Graesse, *Trésor de livres*, v. 502; Muller, *Books on America* (1877), no. 2628; Raemdonck, *Mercator*, 250; *Murphy Catalogue*, no. 2059.

1596.

Title: *Claudii Ptolemæi Geographia Universalis tum veteris tum novæ absolutissimum opus duobus voluminibus distinctum libri octo; quorum primus illustratus est à Io. Antonio Magino Patavino. In secundo volumine insunt Ptolemæi antiquæ orbis tabula xxvii; et tabula xxxvii recentiores. . . . Auctore eodem I. A. Magino. Venetiis, apud Haeredes Simonis Galignani de Karera, Cl. J. J. XCVI.*

Description: Quarto, in two volumes. Title; five preliminary leaves; text, 184 and 47 pages; table, 19 leaves; "Pars secunda," title (with map on reverse), and including title, 292 leaves; table, 26 leaves, with 64 maps.

The description of America is in the 2d volume, folios 279-291.

This is the first edition of a series which includes other editions in 1597, 1608, and 1617.

Maps: Sixty-four in number, differing from those in the 1574 edition, and more particularly described (later) under the Cologne-Arnheim edition of 1597, as found in the Mass. Hist. Society's copy of that date.

Copies: (1) *Astor Library*. (2) *Carter-Brown Library*, — but not in the catalogue.

References: *Astor Library Catalogue*, p. 1525; Stevens, *Hist. Coll.*, i. no. 681.

1597.

Title: *Descriptionis Ptolemaicae Augmentum. Sive Occidentis Notitia Breui Commentario illustrata Studio et opera Cornely Wyffliet Louaniensis. Lovanii Typis Iohannis Bogardi Anno Domini M.D.XCVII.* (Copied from the Harvard College copy.)

Description: Folio. Engraved title and three preliminary leaves. [Part I.] text, pp. 1-92; map, "Utriusque hemispherii delineatio"; [Part II.] text, pp. 93-191 with 18 maps interspersed; list of maps, with errata below, 1 page. A second issue of the same year omits the errata.

Maps: They are entirely devoted to America, and constitute the earliest general American atlas.

They are as follows:—

1. "Utriusque hemispherii delineatio." The western hemisphere shows the outline of the two Americas more accurately than in the 1561 edition. The unknown coast in the northwest of North America is now defined, with the straits of Anian separating it from Asia. California is still a peninsula. A circular inland sea, standing probably for Hudson's Bay, is marked "mar dulce," and is connected with the Arctic waters. "Groenlant" is an arctic island with "Groclant" west of it. The name and existence of Grocland seems to have come in by a misconception. Johannes Kolnus was sent out from Scandinavia to carry recruits to Greenland, which he called Grocland,—hence the confusion.

Labrador is "No. Francia," north of which is Hudson's straits without the bay, and beyond that, farther north is "Estotilant." The St. Lawrence Gulf stretches west into a river, but no lakes are beyond. "Norumbega" here first appears on a Ptolemy map. The northern continent is called "America sive India nova." South America is without general name. "Terra del Fuego" is extended into a large antarctic continent.

Except for the edition of 1596, repeated this year, 1597, and yet to be described, it was thirty-six years since there had been a new delineation in the Ptolemy series of the American continents, the maps of the 1561 edition serving during the interval, but various maps, MS. or published, had marked the progress of geographical knowledge; and some of the most significant may be briefly enumerated:—

1562. A map of Diego Guitierrez, cited by Kohl in his Washington collection.

1562. A carta nautica of Paolo Forlani, preserved in the National library at Paris, and given by Santarem.

1563. The atlas of Giorgio Sideri detto Cullapoda di Candia, in the Biblioteca Marciana at Venice.

1564. Baptista Agnese. Cf. *British Museum Cat. of MSS.*, no. 25442, with this title, *Baptista agnese fecit venetiis anno dñi 1564 die 25 mai*, belonging to an atlas of nine leaves; and Matkovic gives one of the same date as being in the Marciana. HARRISSE, *Cabots*, p. 189.

Beside the atlases of Agnese, which have been enumerated thus far in this bibliography under their dates, there are various undated and anonymous works, similar in manner to his, and which are attributed to him by HARRISSE, *Cabots*, p. 190, namely:—

1. Atlas in the Paris library, no. 18249.

2. Portolano, thought to have been ordered by Charles V. for his son Philippe, in the Spitzer collection at Paris, and described in Spitzer and Weiner's

Portulan de Charles-Quint donné à Philippe II, accompagné d'une notice explicative, Paris, 1875 (14 photographs).

3. Atlas in the library of the faculty of medicine at Montpellier. Cf. M. professor Cons in *Sac. languedocienne de géog.*, Montpellier, 1878, i. p. 432.

4. Portolano in royal library at Dresden, described by Kohl in *Discovery of Maine*, pp. 293, 316.

5. In the ducal library at Wolfenbüttel.

6. In the royal library at Munich. Kunstmann's *Atlas*, pl. vi. and vii.

7. In the library of Baron Edmond de Rothchild.

HARRISSE, *Cabots*, p. 191, points it out as a peculiarity of the Agnese maps that Greenland is always with him "Baccalaos"; and that he indicates by dotted lines various routes of navigation through and around America, sometimes by Cape Horn "a la Maluche"; then by Panama, "el viago de peru"; then by the north of Canada, across an isthmus to the Pacific; but in the portolano of 1536, the passage is unbroken by land, and called "el viago de franza" (see Kohl, *Discovery of Maine*, 292), which HARRISSE thinks rather a reminiscence of Verrazano than of Cartier. Agnese seems not to have advanced in his views as he grew older, and preserved remarkably through all his series a geographical delineation of the same type. He still keeps Newfoundland a part of the main in 1564. His prototype, according to HARRISSE, *Cabots*, p. 193, was the Torenano map, published in 1534. The Spitzer map, above-mentioned, HARRISSE would date about 1542, and he draws from it the conclusion that at that date the Spanish geographers from whom Agnese borrowed, knew no more of the Newfoundland regions than was known in the time of Ribero and Chaves.

1565. The catalogue of the king's maps in the British Museum puts under 1562 a map entitled: *Universale Descriptione di tutta la Terra Cognosciuta da Paulo di Forlani*; but Thomassy (*Les Papes géographes*, p. 118) cites it as published at Venice in 1565, and says it strongly resembles Gastaldi's map, and is perhaps the same one credited to Forlani under 1570, as showing the recent discoveries in Canada. It is contained in the so-called Roman atlas of Laffreri, *Tavole moderne di Geografia*, Rome and Venice, 1554-1572. Cf. Manno and Promis, *Notizie di Jacopo Gastaldi*, 1881, p. 19; and HARRISSE, *Cabots*, p. 237. Kohl in his MS. Essay on the Cartography of the West Coast of North America, now in the library of the American Antiq. Soc., describes and gives a drawing of that part of a map published by "Paulo de Furlano," showing the straits of Anian, and says that Furlano is reputed to have received it in 1574 from a Spanish nobleman, Don Diego Hermano of Toledo. Kohl also gives the eastern coast from it in his collection at Washington.

1566. Ghillany's *Behaim*, p. 60, describes a brass globe by Johannes Prætorius, preserved in the Town Hall at Nuremberg. Wieser (*Magalhães-Strasse*, p. 70) refers to a similar globe of the same maker, dated 1568, and preserved in the Mathematical Salon at Dresden.

1566. An engraved map (23 × 21 inches) by Johannes Paulus Cimberlinus of Verona, showing North America as a part of Asia. Mr. J. Carson Brevoort has a copy. Cf. *Catalogue of the King's maps in the British Museum*.

1566. An engraved map (15½ × 10½ inches) by Zalterius of Bologna, issued at Venice, with the following title: "Il Disegno del scoperto della nova Franza il quale s'è hauuto ultimamente dalla novissima navigatione de' Francezi in quell luogo: Nel quale si vedono tutti l' Isole, Porti, Capi et luoghi

fra terra che in quella sono. Venetiis æneis formis Bolognini Zulterii. Anno M.D.LXVI." It extended to the west coast, and showed the straits of Anian, then supposed to separate America from Asia, for the first time on any engraved map, according to Kohl in his manuscript preserved in the American Antiquarian Society's library, who gives a sketch of this portion of it. It was a few years later copied in part by Ortelius. Cf. HARRISSE, *Notes sur la Nouvelle France*, no. 295.

1566. A map of Des Liens preserved in the Bibliothèque Nationale at Paris.

1567. Santarem in the *Bull. de la Soc. Géog.* (1837), viii. p. 175, quotes an atlas in the library of Ternaux, which has a map of the new world. It is not mentioned in Ternaux's *Bibl. Américaine*.

1568. A general map of America, by Diego Homem, cited in Kohl's collection in Washington. The original is in the Royal library at Dresden.

1569. The great mappemonde of Gerard Mercator, the first in which he introduced his now well-known projection,—the only copy of which is preserved in the National library, Paris. Cf. D'AVEZAC's "Coup d'œil historique sur la projection des cartes," in the *Bull. de la Soc. Géog.*, 1863; E. F. HALL's "Gerard Mercator" in the *Bull. of the Amer. Geog. Soc.*, 1878; CHAS. P. DALY's *Early Cartography*, p. 38.

A full size facsimile of the map is given in JOMARD's *Monuments de la Géog.*, pl. xxi.; but it omits the legends given in squares on the map, but these are reproduced in Lelewel's *Géog. du Moyen Age*, i. pl. 5; also cf. i. p. xcvi. and ii. 181, 225. A reduction from Jomard's engraving is given by DALY in his *Early Cartography*, p. 38. Sections are given in Kohl's *Discovery of Maine*, p. 384; BROWN's *Cape Breton*; and *Historical Mag.*, 1868.

The distinctive features of the map are a completed western coast to North America, with the Straits of Anian; the establishment of a type of delineation for Groenland, Groclant, and Labrador, which obtained for some years; the extension of the St. Lawrence inland, with no sign as yet of the great lakes; and Tierra del Fuego is expanded into a large circumpolar continent.

1570. There is in the Paris library a finely executed MS. map of a demi-elliptical projection called *Carte universelle. Description du monde avec le vrai traicté des vents, faicte par Jehan Cossin en Dieppe, marinier en lan 1570*, which gives a Portuguese nomenclature. HARRISSE, *Cabots*, p. 217.

1570, etc. Ortelius's *Theatrum orbis terrarum*, the exemplar of the modern general atlas; the contour given to America is a pretty close reproduction of Mercator; and it can be seen in Lelewel. It appears both in the mappemonde and in the separate map of America.

The bibliography of Ortelius is traced in the *Nar. and Crit. Hist. of America*, vol. iii. 34; iv. 369. There were various later editions.

1572. Porcacchi's *L'isole piu famose del Mondo*, Venice. This first edition has two maps showing America. In one (p. 114) the western coast of North America is cut off by the edge of the plate, and the extreme eastern parts are called "Terra de Laborador," with an island lying off it. The outline of the whole is compact, without much detail about the northeastern parts. An indentation in the coast line, with a few islands in it, is all that marks the St. Lawrence gulf, and the river of that name does not appear.

In the other map (p. 109) an elliptical-shaped mappemonde shows a bit of Asia (Anian and Mangi) projecting from the left edge of the ellipse,

and separated by a strait from western America, whose general shape is much the same as in the other map. The most distinguishing interior feature is a lake, which flows into the Atlantic by a river midway down the eastern coast of North America.

Both maps have the amplified Tierra del Fuego continent, and reappear, unchanged in the edition of 1576. The later mentioned of the two maps is given in facsimile in Steven's *Hist. and Geog. Notes*.

The 1576 edition (also Venice with colophon, 1575) shows additional maps, having 47 in all, and pages 157-184 are given to the American islands. Beside the map of the world and a maritime chart, "Carta da navigar" (p. 198), it has maps of Cuba, etc., and "la Città e isola Temistitan" (Mexico). There is a copy in Harvard College library, and in the collection of Charles Deane. Cf. STEVENS, *Hist. Coll.*, i. p. 82; CARTER-BROWN *Catalogue*, i. 309; MULLER, *Books on America* (1872), no. 1255.

There was still another edition of Porcacchi preceding Wytfliet, and issued at Venice in 1590. There is a copy of this edition in the Boston Public library. Cf. CARTER-BROWN *Catalogue*, i. no. 393; MURPHY *Catalogue*, 2010.

1573. Lelewel, *Géog. du Moyen Age*, i. pl. 6, gives a sketch of MS. Spanish map, and describes it, vol. i. p. ci; ii. 114. He says it was taken from Spain to Warsaw, but disappeared later.

1573. A portolano of F. Vās Durado (*British Museum MSS.* 31317). See *post*, sub anno, 1580.

1574. A mappemonde of this date, engraved by Philippus Gallæus, "Tiipus orbis terrarum," is found in the *Enchiridion Philippi Gallæi per Hagonem Favolium*, a book of hexameters, published at Antwerp in 1585, in quarto. It has also a small map (p. 4), "Americæ sive novi orbis nova descriptio." Cf. LECLERC, *Bibliotheca Americana*, no. 206 (25 fr.).

1575. André Thevet's *La Cosmographie Universelle*, 2 vols., folio, Paris. This book was used by Wytfliet, and from it he copies an account of the river of Norumbega. Thevet claimed to have been on the coast in 1556; but he is accused of mendacity, by many writers, and not altogether without reason. He first published his *Les Singularitez de la France Antarctique* in 1557 at Paris (*Huth Catalogue*, iv. 1464; and a Boston sale catalogue, 1844, when a copy of this date, brought \$17), though the date is usually given 1558 (Ternaux, *Bibl. Amér.* no. 81; Brinley *Catalogue*, 150; CARTER-BROWN *Catalogue*, i. no. 225; O'CALLAGHAN *Catalogue*, no. 2246; Maissonneuve, 1881, 400 francs; Quaritch, £7 7s.), for the first Paris and for the Antwerp edition. The Harvard College library has the Antwerp edition. There were later Italian (1561 and 1584) and English (1568) versions; and in 1878 it was reprinted at Paris with notes by P. Gaffarel.

It is Thevet's later book, the *Cosmographie*, which has the map of America, of chief interest in our study. It is engraved on wood, and follows for the most part that of Ortelius. North America is called "Terre-neuve." Le Clerc, *Bibl. Amér.*, no. 2652, gives a map of his entitled "Le nouveau monde decouvert & illustre de nostre temps, Paris, G. Chaudière, 1581,"—which is called another production by HARRISSE, *Cabots*, p. 252, and Kohl says it belongs to the *France Antarctique*. Cf. CARTER-BROWN *Catalogue*, i. no. 599; Kohl, *Discovery of Maine*, p. 416; De Costa, *Northmèn in Maine*; *Hist. Mag.* (by J. H. Trumbull), xvii. 239; *Mag. of Am. Hist.*, viii. 228 (Feb. 1882). Kohl includes this Thevet map in his Washington collection.

1575. Belleforest's *Cosmographie* has a map in which North America is called "America sive India nova"; and "Brésil" stands on South America.

1576. A heart-shaped mappemonde accompanied Sir Humphrey Gilbert's *Discourse of a Discoverie for a new passage to Cathaya*, in which he recounts traditions of America having been sailed through, and his belief of its insular character. The map is very rare, but it is in the Lenox and Carter-Brown copies, and is given in reduced facsimile in the *Catalogue* (i. p. 258) of the latter library; and a facsimile of the American portion is given in the *Narrative and Critical History of America*, iii. ch. 6. The book brought \$255 in the Brinley sale, no. 31. The Straits of Anian are shown with Giapan, an island south of them, midway between the two coasts. The Gulf of California is not drawn, but there is a considerable forked inlet farther north. An Arctic sea is beyond 50° north. The continent ends eastward on what is perhaps the line of the Hudson; beyond this a stretch of islands, large and small, extending northeasterly, are called Canada, with a small island, Honchelay, north of it. Then an island, not named, but probably Newfoundland, with Baccalaos, a small island east, and Labrador, a large island, northeast; and a still larger island, Grondlandia, north of Labrador. The northern continent is marked "America"; but Peru in the northwest corner is the only name on South America. There is the usual large Antarctic continent of this period.

1576. Wieser in his *Magalhães-Strasse*, p. 72, refers to Philip Apian's erdglobus in the Hofbibliothek at Munich.

1578. George Best's *True discourse of the late voyage of discoverie for the finding of a passage to Cathaya by the northwest under the conduct of Martin Frobisher, General*, is a rare book, with a map indicating Frobisher's idea of the northern regions. The essential parts are given in facsimile in Collinson's *Martin Frobisher*, and in the *Narrative and Critical History of America*, iii. ch. 3. Cf. *Carter-Brown Catalogue*, i. no. 319. There is also a copy in the Lenox library. Kohl, *Maps mentioned in Hakluyt*, p. 18, traces the authorship of these charts (the other is of Frobisher's Straits only) to James Beare, Frobisher's principal surveyor.

1578. In the British Museum are various MS. maps by Joan Martines of Messina. Copies are in Kohl's Washington collection. Cf. *Cat. of MS. maps in Brit. Mus.*, i. p. 29; *Brit. Mus. MSS.*, no. 22018.

1578. Cellarius's *Speculum orbis terrarum*, Antwerp, impensis Gerardi de Jode. A folio atlas. Among the maps are a mappemonde, and one of South America with views of Mexico and Cusco. Weigel, *Catalogue* (1877), no. 36.

1580. Vaz Dourado's map given in facsimile in Kunstmann's *Atlas*. (See *ante*, sub anno 1573.)

1580. John Dee's *Booke of Idrography*, a MS. preserved in the British Museum.

1582. De la Popellinière's *Les Trois mondes*, published at Paris. It has a folding woodcut mappemonde, which closely resembles the original Ortelius map and that of Mercator of 1569. The third world is the great Antarctic continent, so common in maps of this period. *Carter-Brown Catalogue*, i. p. 292; *Huth Catalogue*, iv. 1169; Leclerc, *Bibl. Amer.* (650 fr.); Stevens, *Hist. Coll.*, i. 135. There is a copy with the map in Harvard College library.

1582. The British Museum catalogue of MSS., no. 27470, shows a map of the world by A. Millo; and in its *Catalogue of MS. maps* (1844, vol. i. no. 31) is a world-map by Martines.

1582. Hakluyt's *Divers Voyages*, which contains a map by Michael Lok, dedicated to Sir Philip Sidney, and bearing this date. It is represented on a segment of a disk, with the north pole for the apex, and the twentieth parallel of north latitude for the

outer margin. Starting with the Azores as the first meridian, it shows 30° east and 130° west. There is Groeland near the pole; Greenland southeast of it; Frisland, with its northern shore undefined, south of Greenland. Hudson's Straits are called Frobisher's, with "Meta Incognita" north of it. Southern Labrador is "Cortereal," and an island off the northern part is "Laborador." The Penobscot is made to connect with the St. Lawrence, making the misshapen region east of it an island called "Norumbeaga," the northern part of which is marked "Jac Cartier, 1535," and the southern part "J. Gabot, 1597." There is the usual hook in the coast line in about 40°, "C. Arenas," and a narrow isthmus separates the bay which it encloses from the broad "Mare de Verrazana, 1524," coming down from the northwest; its eastern shore, trending towards Hudson's Bay, is mostly undefined; its southern shore trends nearly west, and then becomes undefined, allowing the California peninsula to be hooked on the main by a narrow isthmus, with no coast above it. Florida is in its right place, and the point of Yucatan is just shown at the lower edge of the map.

Cf. for copies, *Narr. and Crit. Hist. of America*, iv. 44.

1583. One of the last editions of Reisch's *Margarita Philosophica*, published at Basle, has a map,—"Typus universalis Terræ, juxta modernorum distinctionem et extensionem per Regna et Provincias." Leclerc, *Bibliotheca Amer.*, no. 2926 (45 fr.); Uricoechea, *Mapoteca Colombiana*, no. 15.

1584. The series of Dutch sea-atlases begins this year with Waghenar's.

1584. An enlarged edition of the *Cosmographia* of Apian and Gemma Frisius has a mappemonde.

1587. The map in Hakluyt's Paris edition of Peter Martyr.

1589. The map of Cornelius de Judæis, in his *Speculum orbis terræ* (1593).

1590. The large folding map of the world in the *Opusculum Geographicum* of Myritius, one of the latest to connect North America with Asia. It was published at Ingolstadt, in 1590, but the preface is dated in 1587.

1592. The map of Thomas Hood, given in Kunstmann's *Atlas*.

1592. Molineaux's globe preserved in the Middle Temple in London.

1593. The map in the *Historiarum Indicarum libri XVI.* of Maffei.

1594. The map of the world by Quadus.

1594. The map of Peter Plancius in the Dutch edition of Linschoten, published at Amsterdam, in 1596.

1596. DeBry's maps.

The other maps in the 1597 edition of Wytfliet are as follows:—

2. Chica sive Patagonica et Australis terra, 1597 (with the Straits of Magellan).
3. Chili provincia amplissima.
4. Plata, Americæ provincia.
5. Brasilia.
6. Peruani Regni descriptio, 1597.
7. Castilia aurifera cum vicinis provinciis (N. W. corner of South America).
8. Residuum continentis cum adjacentibus insulis (northern parts of South America).
9. Hispaniola insula.
10. Cuba insula et Jamaica.
11. Iucatana regio et Fondura.
12. Hispania nova (Mexico).
13. Granata nova et California.

14. Limes occidentis, Quivira et Anian, 1597.
15. Conibus regio cum vicinis gentibus (Hudson Bay and parts south of it).
16. Florida et Apalche (from North Carolina to Yucatan).
17. Norumbega et Virginia, 1597 (from 37° to 47° N. latitude).
18. Nova Francia et Canada, 1597 (the St. Lawrence gulf and river and parts to the north).
19. Estotilandia et Laboratoris terra (shows influence of the Zeno map).

Copies: (1) *Harvard College Library*. (2) *Carter-Brown Library*. (3) *The Henry C. Murphy Library*.

References: *Carter-Brown Catalogue*, nos. 516, 517; *Murphy Catalogue*, no. 2780; Quaritch, *Catalogue* (1880), no. 12541, priced at £3-10; *Sunderland Catalogue*, v. 13463, etc.; *Leclerc, Bibl. Amer.*, 611.

1597.

Title: *Claudii Ptolemai Geographia universae tum veteris, tum novae absolutissimum opus, duobus voluminibus distinctum, In quorum priore habentur Cl. Ptolemai, Pelusiensis Geographica enarrationis Libri octo: Quorum primus, qui praecepta ipsius facultatis omnia complectitur, commentariis uberrimis illustrata est à Io. Antonio Magino Patavino. In secundo volumine insunt Cl. Ptolemai, antiquae orbis tabulae xxvii. ad praeclaras historias intelligendas summe necessariae. Et tabulae xxxviii. recentiores, quibus universi orbis pictura, ac facies, singularumque eius partium, regionum, ac provinciarum ob oculos patet nostro saeculo congruens. . . . Auctore eodem Io. Ant. magino, Patavino. Anno 1597. In celeberrima Agrippinensium Colonia excudebat Petrus Keschdt.* (Copied from Stevens's *Nuggets*.)

Description: In quarto. [Part i.] Four preliminary leaves, including engraved title; 47 + 184 pp.; index, 38 pp. [Part ii.] Title; leaves, 2-292; index, 56 pp. (as given by Stevens).

Maps: Three maps of the world and 61 separate maps.

Copies: (1) *James Carson Brevoort*; (2) *Mass. Historical Society*.

References: Stevens, *Nuggets*, no. 2259; *Walckenaer Catalogue*, no. 2257; *Mass. Hist. Soc., Library Catalogue*, ii. p. 9; Græsse, *Trésor de livres*, v. 502; Muller, *Books on America* (1872), no. 2313; (1875) no. 3258; (1877) no. 2630.

1597.

Title: *Claudii Ptolemai Geographia universae tum veteris, tum novae absolutissimum opus, duobus voluminibus distinctum, In quorum priore habentur Cl. Ptolemai Pelusiensis Geographica enarrationis Libri octo: Quorum primus, qui praecepta ipsius facultatis omnia complectitur, commentariis uberrimis illustratus est à Io. Antonio Magino Patavino. In secundo volumine insunt Cl. Ptolemai, antiquae orbis tabulae xxvii. . . . Et tabulae xxxviii. recentiores, . . . Auctore eodem Io. Ant. Magino Patavino . . . Anno 1597. In celeberrima Agrippinensium Colonia excudebat Petrus Keschdt.*

Colophon: *Arnhemii, apud Iohannem Iansonium Bibliopolam. Anno M.D.XCVII.* (Copied from the Mass. Hist. Society's copy.)

Description: Quarto. Title of elliptical print in engraved border; 47 pp. preliminary matter; text, 182 pp.; indexes, 20 leaves; same engraved title,

with new type-inscription, being "Pars secunda," on reverse map of Ptolemy's world; descriptions with maps, numbered as folios, 2-292; index, 28 leaves, with colophon at end.

Maps: Copperplate; all but one on single pages.

1. "Ptolemaei Typus." The old world.
2. "Orbis terrae compendiosa descriptio ex ea, quam ex Magna Universali Mercatoris Rumoldus Mercator fieri curabat in hac commodiorē formā a Hieron. Porro redact." A folding map of double spheres.

Then follow 10 maps of Europe, 4 of Africa, and 12 of Asia.

29. "Universi orbis descriptio." An elliptical projection of the whole world, "Secundum recentiorē nostri Temporis rationem."

Then follow maps of Europe, 1-22; of Africa, 23-24; of Asia, 25-33, two of the last showing America, viz.,—

28. "Tartariae imperium." Represents Asia separated by the "Stretto di Anian" from America (shown as far east as the Gulf of California), while Japan, a large island, further south, nearly fills the sea, and is equidistant from each shore.

32. "India orientalis." Shows in the northeast corner a bit of America, with Japan not so nearly filling the space between it and Asia, as in no. 28.

34. "America."

35. "Universi orbis descriptio ad usum navigantium."

According to Græsse this is the same edition as the Cologne edition of 1597; with one map extra, called, "Orbis terrae compend, descriptio ex ea, quam ex magna universali Mercatoris Rumoldus Mercator fieri curabat in hanc commodiorē formam a Hier. Porro redactus."

Copies: (1) *Carter-Brown Library*. (2) *Library of Congress*.

References: *Carter-Brown Catalogue* i. no. 514; *Library of Congress Catalogue* (1867), p. 332; Græsse, *Trésor de livres*, v. 502.

1597.

Title: *A Supplement to the Ptolemaick Description, or, An Account of the West Indies.* Louvain, 1597. (Copied from the *Murphy Catalogue*, no. 2781.)

1598.

Title: *Descriptionis Ptolemaicae Augmentum, sive Occidentis notitia Brevi Commentario illustrata, et hac secunda editione magna sui parte aucta.* Cornelio Wytfliet Louvaniensi auctore. Lovanii: Typis Gerardi Rivii. Anno Domini *CLIX.XCIIIX*. (Copied from the facsimile of the title in the *Carter-Brown Catalogue*.)

Description: Folio. Engraved title; dedication, 2 pages; to the reader, 2 pages; epigram, 1 page; privilege, 1 page; text, 1-191 pages, with a list of 19 maps on reverse of last leaf.

Leclerc (*Bibl. Amér.*, 613) says the table of the errata, which appeared in the 1597 edition, is omitted, without the errors being corrected in the text.

Maps: Nineteen of America. See edition of 1597.

Copies: (1) *Library of Congress*. (2) *The Henry C. Murphy Library*. (3) *Samuel L. M. Barlow*,—the second part has 1597 on the title. (4) *Carter-Brown Library*.

References: *Carter-Brown Catalogue*, i. 536; *Sunderland Catalogue*, v. 13464; Muller, *Books on America* (1875), no. 3259; Dufossé, *Americana*, nos. 2976 (45 fr.), 4154, 4875, 8637.

1598.

Title: *Geografia cioè descrizione universale della terra, partita in due volumi, nel promo de quali si contengono gli 8 libri della Geografia di Cl. Tolomeo, nuovamente rincontrati e corretti da G. Antonio Magini. Dal Latino nell' Italiano tradotta da Leonardo Cernoti. 2 parti in 1 vol. Con figure in legno e 64 tavole intagliate in rame da Girolamo Porro. Venetia. G. Brattista & G. G. Fratelli 1598 (with 1597 in the colophon).*

Description: Small folio, in two volumes. Two leaves; 83 pp.; 15 + 212 + 30 leaves; 64 maps.

Maps: Sixty-five, engraved by Girolamo Porro.

Copies: (1) *Philadelphia Library*. (2) *Library of Congress*. (3) *The Henry C. Murphy Library*.

References: *Philadelphia Library Catalogue*, p. 614; *Walckenaer Catalogue*, no. 2263; *Library of Congress Catalogue* (1867), p. 332; Stevens, *Hist. Coll.*, i. no. 682; Quaritch, *Catalogue* (1880), no. 11706; Weigel, *Catalogue*, no. 1877, no. 1485; *Carter-Brown Catalogue*, no. 533; *Murphy Catalogue*, no. 2078^a.

1599.

Title: *Geografia di Claudio Tolomeo Alessandrino. Tradotto di Greco nell' Idioma Volgare Italiano da Girolamo Ruscelli, et hora nuovamente ampliata da Gioseffo Rosaccio. Con varie Annotationi & Expositioni & Tavole di Rame, che nelli stampati altre volte non erano, havendo etiandio poste a lor luoghi le Tavole vecchie, che prima confusamente giacevano. Et una Geographia universale del medesimo, separata da quella di Tolomeo; . . . Et une breve Descriptione di tutta la Terra, distinta in quattro Libri. In Venetia, MDXCIX. Appresso gli Heredi di Melchior Sessa. (Copied from the *Carter-Brown Catalogue*.)*

Description: Quarto. Title; three preliminary leaves; table, 32 leaves; text, 42 + 186 + 144 leaves.

Maps: Three maps of the world and nine special maps of America, accompanying "Libre iv. tratt. del' America," in leaves 125-143 of the second part.

Copies: (1) *The Henry C. Murphy Library*. (2) *Carter-Brown Library*.

References: *Carter-Brown Catalogue*, i. 543; *Walckenaer Catalogue*, no. 2262; Muller, *Books on America* (1872), no. 2314; (1877) no. 2631 (9 Dutch florins); Dufossé, *Americana*, nos. 4155, 4876 (12 francs); Weigel, *Catalogue*, no. 1487 (18 marks); *Murphy Catalogue*, no. 2077.

1603.

Title: *Descriptionis Ptolemaica Augmentum. Sive Occidentis notitia, Brevis Commentario illustrata, et hac secunda editione magna sui parte aucta. Duaci. Apud franciscum fabri Bibliopolum iuratum. Anno 1603. (Copied from the *Carter-Brown Catalogue*.)*

Description: Folio. Engraved title and 3 preliminary leaves; text, 1-191 pp., 19 maps.

Leclerc, *Bibl. Amér.*, 614, says it is the same edition as that of 1598, the title only being new, and a blank leaf being substituted for the one after the preface, containing "In C. Wytfliet epigramma." Cf. Muller, *Books on America*, 1877, no. 3575.

Maps: See edition of 1597.

Copies: (1) *Carter-Brown Library*. (2) *Philadelphia Library* (Loganian department). (3) *Library of Congress*.

References: *Carter-Brown Catalogue*, ii. no. 20; *Library of Congress Catalogue*, i. 2096; Rich (1832), *Catalogue*, no. 97, £1 10s. 6d.

1605.

Title: *Claudii Ptolemai Alexandrini Geographiae libri octo Graecolatini Latine primum recogniti & emendati, cum tabulis geographicis ad mentem auctoris restitutis per Gerardum Mercatorem: Jam vero ad Graeca & Latina exemplaria à Petro Montano iterum recogniti, et pluribus locis castigati. . . . Jodocus Hondius excudit sibi et Cornelio Nicolai, in cujus officina prostant, Fracofurti. 1605. (Copied from the Mass. Historical Society's copy.)*

Description: Folio. Engraved title with border; five preliminary leaves, on the verso of the last a portrait of Mercator with a globe showing America; text, Latin and Greek in parallel columns, 215 pp.; one page blank; 28 maps with descriptions; indexes, 31 pp.

Maps: Relate to the old world only.

Copies: (1) *Mass. Historical Society*.

References: Leclerc, *Bibl. Amér.*, no. 478 (100 francs); Brunet, *Manuel*, iv. 950; *Mass. Hist. Soc. Catalogue*, ii. p. 284; *Walckenaer Catalogue*, no. 2231; Raemdonck, *Mercator*, p. 253; Muller, *Books on America* (1872), no. 2315; (1875) no. 3260; (1877) no. 2632. The *Murphy Catalogue*, no. 2063, gives this title with the date 1624.

1607.

Title: *Histoire universelle des Indes Occidentales, Divisée en deux livres, faite en Latin par Monsieur Wytfliet. Nouvellement traduite. Où est traité de leur découverte, description et conquête faite tant par les Castillans que Portugais, ensemble de leurs moeurs, religion, gouvernemens, & lois. A Douay. Chez Francois Fabri L'an 1607. (Copied from the *Carter-Brown Catalogue*.)*

Description: Engraved title; I, — 4 preliminary leaves; 136 pp.; table, 3 leaves; 19 maps. II, — "Histoire universelle des Indes orientales": title and 6 preliminary leaves; text, 72 pp.; 4 maps. "La suite, etc." 1-72 pp. (misnumbered 66); table, 3 leaves.

Part I. is considerably changed from preceding texts, with omissions and additions.

Maps: Twenty-three relating to America.

Copies: (1) *Carter-Brown Library*. (2) *Dr. E. B. O'Callaghan*.

References: *Carter-Brown Catalogue*, ii. no. 59; *O'Callaghan Catalogue*, no. 2453; *Sunderland Catalogue*, v. 13465; Leclerc, *Bibl. Amér.*, 615 (40 fr.); Quaritch (1870), no. 14; Dufossé, *Americana*, no. 7518 (30 fr.).

1608.

Title: *Geographia Universalis tum veteris, tum novae absolutissimum opus duobus voluminibus distinctum, . . . Libri octo: quorum primus qui praecepta ipsius fuculatis omnia complectitur, commentariis uberrimis illustratus est à Ioan Antonio Magino Patavino. . . .*

In secundo volumine insunt Claudii Ptolemæi antiquæ orbis tabulæ xxvii; et tabulæ xxxvii recentiores, etc. Auctore eodem Ioan. Ant. Magino. . . 1608.

The title of "Pars secunda" has the imprint: *In cerrebrima Agrippinensium Colonia excudebat Petrus Kschedel.* (Copied from the *Carter-Brown Catalogue*.)

Description: Quarto. Printed title in engraved border; 3 preliminary leaves; "Commentaria et annotationes," 47 pp.; text, 184 pp.; index, 19 leaves. "Pars secunda," title within engraved border, and map on the reverse; text, 292 leaves, including title; index, 28 leaves; 64 maps.

Maps: See edition of 1597.

Copies: (1) *Carter-Brown Library*. (2) *Harvard College Library*. Bought at the J. J. Cooke sale, 1883.

References: *Carter-Brown Catalogue*, ii. 1640; *Cooke Catalogue*, ii. no. 1948 (sold for \$20).

1611.

Title: *Histoire universelle des Indes occidentales et orientales, et de la conversion des Indiens. Divisée en trois Parties, par Cornille Wytfliet, & Anthoine Magin, & autres Historiens. Première partie. A Douay, Chez François Fabri, l'an 1611.* (Copied from the *Harvard College* copy.)

Description: Folio. Engraved frontispiece, with the title printed within it from type, 1 leaf; au lecteur, 1 leaf; sommaire, 2 leaves; text, 108 pp., with "Ordre des Cartes" on p. 108. "Seconde Partie,"—engraved title; tables, 8 leaves; to the reader, 1 leaf, with printer's device on the reverse; text, 66 pp. "La troisième partie,"—engraved title, "La suite de l'histoire des Indes orientales"; text, 54 pp.; table, 2 leaves, with printer's device on reverse of the last.

Maps: Twenty-two in number; of which two leaves contain four new maps, not in the previous French edition; viz., India, Japan, China, Philippine islands. "The first part," says Rich, "is a translation of the 1603 edition, with the same maps."

Copies: (1) *Carter-Brown Library*. (2) *Library of Congress*. (3) *Harvard College Library*. (4) *The H. C. Murphy Library*.

References: *Carter-Brown Catalogue*, ii. no. 122; *Murphy Catalogue*, no. 2782; *Library of Congress Catalogue*, ii. p. 2096; Rich, *Catalogue* (1832), no. 127 (L 1 45.); Quaritch (1880), no. 12542 (L 2); Leclerc, *Bibl. Amer.*, 616; Dufossé, *Americana*, 2271 (Richelieu's copy, 60 fr.).

1617.

According to Græsse, *Trésor de livres*, v. 502, the Arnheim edition of 1597 was reproduced this year. See Muller (1877) no. 1963.

1618-19.

Title: A preliminary leaf has this: *Theatrum Geographiæ veteris, Duobus Tomis distinctum, Edente Petro Bertio Bevero. Christianissimi Galliarum Regis Ludovici XIII. Cosmographo.*

An engraved title reads: *Theatri Geographiæ veteris Tomus Prior in quo Cl. Ptol. Alexandrini Geographiæ libri viii Græcè et Latine Græca ad Codices Palatinos collata aucta et emendata sunt Latina*

in finitis locis correctæ Opera P. Bertii Christianissimi Galliarum Regis Cosmographi.

Colophon: *Lugduni Bavorum excudebat typis suis Isaacus Elsevirius, Sumptibus Iudoci Hondii. Anno Clj lxxviii.* (Copied from the *Harvard College* copy.)

Description: Large folio. Engraved title, showing full-length figures of Ptolemæus and Marinus; dedication, one leaf, which in some copies, has a portrait of Bertius on the reverse; præfatio, 5 leaves; sub-title, &c., and text, 1-253; blank, 254; title to Agathodæmon's ancient maps, with Mercator's descriptions, amended by Bertius; maps with descriptions on the recto of first leaf; viz., "Universalis tabula"; 10 of Europe; 4 of Africa, with a small appendix map to no. 3; 12 of Asia; sub-title of Mercator's Annotations, with portrait of Mercator (same as in the 1584 edition) on reverse; Mercator's præfatio and text, 3-28 pp. index, 20 leaves; "itineraria duo," 2 leaves.

"Tomus posterior": engraved title, "Amstelodami, Ex Officina Iudoci Hondij, Anno 1619; Itineraria duo," 1 leaf + 1-46 pp.; "Tabulæ Pertingærianæ," 4 double leaves, 2 on a sheet; "Præfatio," 2 leaves, "Prioris Schedæ explicatio" with map, 6 leaves; "Posterioris Schedæ," 2 leaves; "Abrahami Ortelii Geographiæ veteris tabulæ aliquot," 1 leaf; 14 maps, making with text, 34 leaves; "Ad lectorem," 1 leaf, with colophon on reverse.

Maps: Mercator's of the old world, revised and corrected by Pierre Bertius.

Copies: (1) *Harvard College Library*. It bears in Thomas Hollis's hand the following words: "A fine copy of a very rare work. It was purchased out of the library of the late Duke of Newcastle, and intended to be forwarded to Harvard College at Cambridge in New England. It cost four guineas. Ap. 14, 1769." (2) *The Henry C. Murphy Library*. (3) *Philadelphia Library*,—Loganian department.

References: Brunet, *Manuel*, iv. 951, with full collation; *Chatsworth Catalogue*, iii. p. 268; *Huth Catalogue*, iv. p. 1199; *Walckenaer Catalogue*, no. 2232; *Sunderland Catalogue*, iv. 10352; Raemdonck's *Mercator*, p. 253; *Murphy Catalogue*, no. 2062; D'Avezac, *Geographiæ græcæ et Latine*, 28; Quaritch, *Catalogue* (1880), p. 2083.

1621.

Title: *Geografia cioè descrizione universale della terra partita in due volumi. Corretta da G. A. Magini. Del Latino nell' Italiano tradotta da L. Cernoti. Padova, Galignani, 1620-21.*

Description: Small folio.

Maps: Sixty-four, by G. Porro.

Copy: (1) *Astor Library*.

References: *Walckenaer Catalogue*, no. 2264.

1624.

See edition of 1605.

1695.

Title: *Tabula geographica orbis terrarum veteribus cognita. Franequeræ Apud Leonardum Strik. Trajecti ad Rhenum. Franciscum Halmam. 1695.* (Copied from the *Murphy Catalogue*.)

Description: Mr. Murphy thus described it: "This appears to be a new edition of the maps of Ptolemy, restored by Mercator, and first printed at Cologne in 1578. Franeker, where it was issued, is a small town near Leeward, in Friesland, where there was formerly a university of some celebrity. The publication of Mercator was like this without any text, but it had notes, as may be inferred from Brunet's description of Hondius' edition of Ptolemy, 1618; and the maps were intended to show the design of Ptolemy better than appears in those of Agathodæmon, which were received up to that time." (*Murphy Catalogue*, no. 2064.) See *sub anno*, 1698.

Maps: Twenty-six in number.

Copies: (1) *The Henry C. Murphy Library*.

References: Lelewel, *Géog. du Moyen Age*, ii. 209; *Murphy Catalogue*, no. 2064.

1698.

Lelewel, *Géog. du Moyen Age*, ii. 209, cites, "Trajecti ad Rhenum, atlas Mercatoris per Franciscum Halma et Guillelmum Van de Water." See *sub anno*, 1695.

1704.

Lelewel, ii. 209, referring to the 1698 edition, says: "Le même reproduit."

1715.

Lelewel, ii. 209, cites: "Parisii, variae lectiones graecae, in Chere: Bibliotheca coisliniana, olim sequeriana, sive manuscriptorum accurata descriptio, studio Bernardi de Montfaucon."

1730.

Title: *Orbis antiqui Tabula geographica secundum Ptolemaeum cum ind. absolutiss.* Amsterdam, 1730.

1828.

Title: *Traité de géographie de Cl. Ptolémée, traduit du grec en français (texte en regard) par Halma.* Paris, 1828.

Description: Quarto.

References: *Walckenaer Catalogue*, no. 2258.

1832-1843.

Title: *Geographia libri octo, graeci et latine, ad codd. mss. fide edidit Frid. Guil. Wilberg socio adjuncto Car. Henr. Frid. Grashofio Essendae, Baedeker.* (Copied from Brunet.)

Description: Quarto. It was issued in parts, one book to each, but the publication closed with part. vi. in 1843. Brunet says the publication began in 1832.

Copy: (1) *Astor Library*.

References: Brunet, *Manuel*, iv. 951; *Astor Library Catalogue*, p. 1524; *Walckenaer Catalogue*, no. 2233.

1843.

Title: *Claudii Ptolemaei Geographia. Edidit Carolus Fridericus Augustus Nobbe. Editio stereotypa.* Lipsia, 1843.

Description: In two volumes, 18mo.

Copies: (1) *Harvard College Library*. (2) *The Henry C. Murphy Library*.

References: Brunet, *Manuel*, iv. 951; *Walckenaer Catalogue*, no. 2234.

1867.

Title: *Géographie de Ptolémée, reproduction photographique de manuscrit Grec du monastère de Vatopédi au Mont Athos, exécutée d'après les clichés obtenus sous la direction de M. Pierre de Sérvastanoff, précédée d'une introduction historique sur le Mont Athos, les monastères et les dépôts littéraires de la presque île sainte par Victor Langlois.* Paris, 1867.

Description: Folio. Text, 108 pp. with colored maps. The original manuscript was written about the end of the 12th or the beginning of the 13th century.

There are other manuscripts of Ptolemy mentioned in the *Catalogue of M.S. maps in the British Museum*, 1844, which shows four such, one of the 14th or beginning of the 15th century, another of 1409, and still another of 1450. One is described by De Murr in the *Memorab. Bibl. Publ. Norimb.*, pt. ii. p. 84, and in *Raidelius, Comment.*, etc., pp. 26, 33. Cf. *Archives des missions Scientifiques*, 2d series, iv. 279; Lelewel, *Géog. du Moyen Age*, ii. 121, and *Popular Science Monthly*, xvi.

Copies: (1) *Harvard College Library*. (2) *Carter-Brown Library*. (3) *The Henry C. Murphy Library*.

References: *Carter-Brown Catalogue*, i. no. 589; Brunet, *Manuel, Supplément*, ii. 332; *Murphy Catalogue*, no. 2060; Quaritch, *Catalogue* (1880) 1155; Jomard in the *Bulletin de la Soc. de Géog. de Paris* (1859), xvii. p. 422.

. The most considerable lists of editions of Ptolemy hitherto made have been in: Lelewel, *Géog. du Moyen Age*, ii. App. p. 207; *Waltersdorf, Repertorium*; and the *Walckenaer, Sobolewski, and Murphy Catalogues*.

Among the critical papers on the editions the first place is to be given to D'Arvesac's article in the *Bulletin de la Soc. de Géographie*, 186a, pp. 293-320; and a paper on *Hylacomylus* in *Ibid.*, 1867. The earliest examination is in *Raidel, Commentatio critico-literaria de Claudii Ptolemaei Geographia, Norimbergae, 1737.* (*Murphy Catalogue*, no. 2073). Cf. also A. H. L. Heeren, *Commentatio de fontibus geographicorum Ptolemaei*, Gottingae, 1827, 4°; C. B. Mollweide, *Mathematisches Kunst.*, in *Von Sack's Monatliche correspondenz*, 1805; H. Reuss, *Beitrag zur Geschichte der landkarten, in Zeitschrift der Vereins für Landeskunde*, ii. 1840 (Hesse); A. Roemer, *Ptolemaeus und die Handelsstrassen in Afrika*, Gotha, 1867.

· POSTSCRIPT.

During the printing of the preceding bibliography in the *Bulletin*, the following notes of transfers, other copies and prices, have been made:—

Edition of 1462: The Murphy copy (no. 2043) was bought by Mr. John Russell Bartlett for the Carter-Brown collection. The *Murphy Catalogue* gives Mr. Murphy's reasons for believing the date to be 1482.

Edition of 1475: The Murphy copy (no. 2044) was bought by the Lenox Library.

Edition of 1482: The Murphy copy (no. 2046) is now in the library of Cornell University. A copy was recently priced at 400 francs.

Edition of 1486: The Murphy copy (no. 2047) was bought by the Carter-Brown Library. Mr. Jas. F. Hunnewell of Charlestown, Mass., bought the imperfect Murphy copy (no. 3085) which he has perfected from another defective copy, bought of Col. Rush C. Hawkins of New York. This gives Mr. Hunnewell's copy only 31 maps, the last on a single leaf.

Edition of 1490: The Murphy copy (no. 2048) was bought by Lehigh University. A beautifully illuminated copy in the Sunderland sale (Part v. 13770) was bought by Quaritch, who has since held it at £600.

Edition of 1507: The Murphy copy (no. 2049) was bought by Mr. Whitney. Recently priced by Rosenthal of Munich at 500 marks.

Edition of 1508: The Murphy copy (no. 2050) passed to Cornell University. The Cooke copy (*Catalogue*, ii. 1949) was bought by Yale College for \$90. A copy is owned by M. C. H. Kalbfleisch of New York.

Edition of 1511: The Murphy copy (no. 2051)

was bought by the American Geographical Society. Mr. Kalbfleisch has two copies. Recent prices, — 220 and 350 marks.

Edition of 1513: The Murphy copy (no. 2052) was bought by the American Geographical Society. The Cooke copy (*Catalogue*, ii. 1950) was bought for \$90 by Trinity College, Hartford.

Edition of 1520: The Murphy copy (no. 2053) is now at Cornell University.

Edition of 1522: The Murphy copy (no. 2054) is now in the Lenox Library.

Edition of 1525: One Murphy copy (no. 2055) is now at Cornell University, and the other (no. 2056) is now at Lehigh University. Two copies in the Cooke sale (nos. 1951–1952) passed at \$31 and \$34 respectively to Trinity College and the American Antiquarian Society. A copy was recently sold in the Court sale in Paris (no. 288). Recent prices, — 180 and 300 marks.

Edition of 1535: The Murphy copy (no. 2057) passed to Cornell University.

Edition of 1540: The Murphy copy (no. 2058) is now in the American Geographical Society's library. Mr. Charles Deane of Cambridge has a copy. Recent price, — 160 marks.

Edition of 1541: Recent price, — 150 marks.

Edition of 1542: Recent price, — 150 marks.

Edition of 1578: The Murphy copy (no. 2059) is now in the Carter-Brown Library.

Edition of 1618: The Murphy copy (no. 2062) is now in the Carter-Brown Library.

Edition of 1624: The Murphy copy (no. 2063) is now in the Carter-Brown Library.

Edition of 1695: The Murphy copy (no. 2064) is now in the Carter-Brown Library.

*** Beside the copies above enumerated, President White of Cornell University has added to his collection the following editions: Strasburg, 1522; Basel, 1540 and 1551; Venice, 1562, 1574, 1598.

From

Library of Harvard University.

BIBLIOGRAPHICAL CONTRIBUTIONS.

EDITED BY JUSTIN WINSOR,
LIBRARIAN.

No. 19.



THE KOHL COLLECTION
OF
MAPS RELATING TO AMERICA.

By JUSTIN WINSOR.

CAMBRIDGE, MASS.:

Issued by the Library of Harvard University.

1886.

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A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
7. WILLIAM C. LANE. The Dante Collections in the Harvard College and Boston Public Libraries.
8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
9. GEORGE LINCOLN GOODALE. The Floras of different countries.
10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.
11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.
14. WILLIAM H. TILLINGHAST. Notes on the Historical Hydrography of the Handkerchief Shoal in the Bahamas.
15. J. D. WHITNEY. List of American Authors in Geology and Palæontology.
16. RICHARD BLISS. Classified Index to the Maps in Petermann's Geographische Mittheilungen. 1855-1881.
17. RICHARD BLISS. Classified Index to the Maps in the Royal Geographical Society's Publications. 1830-1883.
18. JUSTIN WINSOR. The Bibliography of Ptolemy's Geography.
19. JUSTIN WINSOR. The Kohl Collection of Early Maps.
20. WILLIAM C. LANE. Index to Recent Reference Lists, 1884-1885.
21. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1880-1885.
- *22. JUSTIN WINSOR. Calendar of the Sparks Manuscripts in Harvard College Library.

THE KOHL COLLECTION OF EARLY MAPS.

BELONGING TO THE DEPARTMENT OF STATE, WASHINGTON, U.S.A.

BY JUSTIN WINSOR, *Librarian of the University.*

*** This collection consists of well-executed hand-copies, with but occasional attempts at reproduction by fac-simile. The maps are contained in a series of portfolios, and each is mounted on a large sheet of card-board, with marginal tablets or other appendage of description. Little use of color is made in them. The names, legends, drawings, and devices are usually in black ink; the coast shadings and larger rivers in a blue wash. The maps vary in size.

Dr. John G. Kohl, a learned German, and a traveler of large experience, was born in Bremen, April 28, 1808, but spent many years in Dresden. He had from his early years pursued the study of historical geography. He came to this country in 1854, bringing copies which he had made of many maps relating to the progress of discovery in America,—some of them from old geographical and other printed treatises, and some from manuscripts of various kinds which he had found in European archives and libraries, public and private. Using an appropriation from the government, obtained in 1856 (\$6,000), he prepared this series of copies, as the foundation of an elaborate catalogue of the early maps of the American continent.

He also, using for illustration some of the same maps, prepared for the Coast Survey memoirs of the early cartography (eastern and western coasts of the present United States and of the Gulf of Mexico), which are described in the *Reports of the Survey for 1855 and 1856*. As the results of this study, Dr. Kohl later printed in the *Zeitschrift für Allgem. Erdkunde* (neue folge, xv), two papers on the "Älteste Geschichte der Entdeckung und Erforschung des Golfs von Mexico und der ihn umgebenden Küsten durch die Spanier von 1492 bis 1543," and he confessedly published this essay as a part of his greater work made for the United States Coast Survey. He likewise prepared, what is in good part an excerpt from this larger collection, a memoir on the early cartography of the northwest coast of North America. This manuscript was later in the possession of Professor Henry of the Smithsonian Institution, and was given by him to the American Antiquarian Society, in whose library at Worcester it now is. Cf. the *Proceedings of that Society*, Oct. 1867; Apr. 1869, and Apr. 1872.

Dr. Kohl failed to get from the government all the sanction which he wanted for the publication of his results, and so returned to Europe about 1858, leaving these collections behind him. At home he became the librarian of the city library of Bremen, and prepared and published various studies in his special department; the chief of which were, first,

a treatise (1861) on the earliest official maps of America, — *Die beiden ältesten General-karten von Amerika*, — which was accompanied by fac-similes on a large scale, excellently done, of the well-known maps of 1527 and 1529; and, second, a treatise on the early discovery and cartography of the region known as the Gulf of Maine, — with references, however, to some adjacent and even somewhat remote parts, — which he undertook at the invitation of the Historical Society of Maine. This book, which forms the first volume of the Documentary History of that State, published by that society, is called *A History of the Discovery of Maine*, and was published, partly at the cost of the State, in 1869. It remains the most important single contribution to the history of the discovery and cartography of our Eastern coast. It was illustrated with numerous sketch maps, mostly, if not entirely, excerpts from this collection, which were used by him under the advantage of greater knowledge and experience than he possessed when he formed the Washington collection. He also printed in 1861, at Bremen, a *Geschichte der Entdeckung Amerikas*, which was translated by R. R. Noel, and published in London in 1862, in two volumes, as a *Popular History of the Discovery of America from Columbus to Franklin*. A treatise on the history of the Gulf Stream was another fruit of these later labors.

Dr. Kohl has amply set forth his methods and purposes in his favorite study in his introduction to his *Discovery of Maine*, and he has explained the importance of old maps in historical study in a lecture *On the Plan of a Cartographical Depot for the History and Geography of the American Continent*, which he delivered at the Smithsonian Institution, and which is printed in its *Annual Report* for 1856, pp. 93-147. Another useful little treatise was also printed by him in Washington in 1857, entitled: *A Descriptive Catalogue of those maps, charts, and surveys, relating to America, which are mentioned in Vol. III. of Hakluyt's Great Work*. In this publication he speaks of having studied American maps "a little better than those of the other parts of the world," and calls his tract a part of *A General Catalogue of all the maps relating to America*, — which seems to have been the title intended for the work, which he hoped finally to publish under the patronage of the government. He also printed at this time in *The National Intelligencer* an interesting paper on "Lost maps."

Dr. Kohl died at Bremen, Oct. 28, 1878; and Mr. Charles Deane, who had known Kohl well during his sojourn in Cambridge, where he had done much of his work on American maps, using in part the

extensive collection of printed maps in the college library, — commemorated him in the following December in a notice before the Massachusetts Historical Society, which is printed in their *Proceedings*, vol. xvi. p. 381. Kohl's reputation as a student and expounder of comparative cartography was very high. Mr. Major, the eminent head of the map department in the British Museum, referring to Dr. Kohl's *Discovery of Maine*, spoke of it as "a most admirable work; and I am proud to think (he adds) that it was at my suggestion that the proposal was made to my learned friend to undertake so responsible and learned a task." Mr. Deane properly says of him: "After the death of Humboldt, he was unquestionably the most distinguished geographer in Europe." Mr. James Carson Brevoort, whose own knowledge of early American maps is so critical, accords him the highest place among his contemporaries; and Mr. Henry C. Murphy, by whose recent death scholarship in this field has lost a devotee of superior attainments, also bears testimony to the rich quality of his work.

After his return to Europe Dr. Kohl also published at Berlin in 1877 a *Geschichte der Entdeckungsreisen und Schifffahrten zur Magellan's-strasse und zu den ihr benachbarten Ländern und Meeren, mit acht Karten*, which had previously appeared in vol. xl. of the *Zeitschrift der Gesellschaft für Erdkunde in Berlin*. This also he considered a fragment of a greater work, which he proposed to call "*Geschichte der Entdeckung und Geographie der Neuen Welt*." He had prepared a history of the search for the northwest passage from Cortes to Franklin and McClure, which failing health prevented his putting to press. Some fragments of it were printed however in the periodical *Ausland*, published at Augsburg. A portrait of him, following a photograph, is engraved in the *Narrative and Critical History of America*, vol. iii. p. 209; and a memoir is printed in the *Beilage zur Allgemeinen Zeitung*, Augsburg, July 9, 1879.

This valuable collection had for twenty-five years remained practically unused in the custody of the Department of State at Washington. At the outbreak of the civil war it was temporarily in charge of the War Department, placed in an apartment occupied by troops, and barely escaped destruction. Scholars have occasionally referred to it, but they chiefly brought away from it a sense of its importance and of the want of a key to it. Being in communication with the librarian of that department, THEODORE F. DWIGHT, Esq., the preparation of an annotated calendar for the use of scholars was suggested; and on his representation of the subject to the Department permission was promptly obtained to have the maps sent to the College library at Cambridge to facilitate the preparation of such a Calendar. Dr. Kohl had arranged the maps on a system, from which it does not seem necessary to depart. Since he was engaged upon this collection a great advance has been made in the study of early American cartography. His comments, therefore, are not as useful now as formerly; and though constant use has been made of them, the editor has been obliged to exercise large discrimination, as well as to rectify Kohl's English, whenever it is quoted. Many important and useful maps have been brought to light or made public, which were not known to Dr. Kohl. In order to make the enumeration as useful as possible as a check-list for the student, notices of many of these additional maps have been inserted in their proper chronological order; but only such as Dr. Kohl contributes have had a marginal serial number given to them.

I.

THE WORLD BEFORE COLUMBUS.

1. A symbolic representation of the earth, heaven, and sun, from an Egyptian papyrus.

Dr. Kohl credits this to a hieroglyphic papyrus in the Cabinet des Médailles of the Bibliothèque Nationale in Paris, and to a reproduction given by Charton in his *Voyageurs anciens et modernes*.

At the bottom of the picture, as a representation of the earth, is an outstretched human figure, its body spotted with leaves. Heaven is in form of another figure, bent like an arch over the earth, with marks of stars covering its body. Among other symbols, the goddess Maou kneels beneath the arch, with weights on her arms, indicating the force of equilibrium. Outside the arch, on the left and on the right, two boats are represented as carrying the rising and setting sun.

2. Hindu representation of the world.

Taken from engravings which appeared in the *Journal* of the Asiatic Society, and in Charton's *Voyageurs anciens et modernes*.

It represents an expanded lotus-flower floating on the sea. A surrounding chain of mountains (not shown in the drawing) separates this from the great vacuum. The centre of the flower forms Mount Meru, the residence of the gods, and from this mountain rivers flow in all directions. The leaves represent the great peninsular regions of Asia.

3. A. D. 550. The universe after Cosmas.

Taken from a print in Charton's *Voyageurs anciens et modernes*.

A case, in shape like the tabernacle of Moses, gives in the upper portion the abode of the Creator. The earth is in the form of a high mountain, round which the sun revolves, and its base is washed by the ocean, arms of which like the Persian Gulf (Persicus), the Arabian Gulf (Arabicus), and the Mediterranean Sea (probably intended by Sinus Romanus) indent the foot of the mountain. The Caspian Sea (Caspus) is represented on the side of the mountain.

Cosmas was a geographer of the sixth century. Cf. Humboldt, *Examen critique*; Santarem's *Atlas*, pl. 3; C. P. Daly, Address on the *Hist. of Cartography*, p. 19.

4. viii. cent. The world.

A map, found by Libri in the library of Alby, belonging to a manuscript of the eighth century, and believed by Libri to be the most ancient cartographical monument known to us. Santarem in his *Histoire de la Cartographie*, etc., ii. 23 (*Atlas*, pl. 2), has analyzed the map, but Kohl, who does not say from what his own copy was made, points out that Santarem's description does not wholly agree with it.

The earth is a huge island of a horse-shoe shape, of wide arms but of narrower apex, lying upon an ocean, — a gulf of which, representing the Mediterranean sea, fills the space between the arms of the shoe.

Kohl points out that this geographer of Charlemagne's day did not know so much of the earth as was known in the time of Alexander the Great. Lelewel, vol. i., gives it, and calls it of the eighth century. Jomard, *Atlas* (pl. xiii.), gives a map resembling it, which he calls of the tenth century.

5. A. D. 787. Spanish map of the world.

Kohl says this drawing is based on a tracing, made by him from a copy, belonging to Santarem, of an original, which is a part of the Spanish manuscript commentary on the Apocalypse by an unknown writer, of about 787. Kohl does not say where the original is; but Santarem has included it in his *Atlas*, pl. 12.

The earth is a parallelogram with rounded corners, surrounded by the ocean, arms of which cut it like straight canals.

— ix. cent.

Santarem in his *Atlas* (pl. 3 and 10), gives two mappemondes of the ninth century; and Lelewel *Atlas* (pl. vii.) gives one from a MS. then preserved at Strasbourg, which had been previously published by Mone in the *Anzeiger für Kunde der deutschen Vorzeit*, 1836.

— x. cent.

Examples of this century, representing an Anglo-Saxon map and an Arabian map may be found in Vivien de St. Martin's *Atlas dressé pour l'Hist. de la Glog.*, Paris, 1874. The same are also given on a small scale in Daly's *Address on the History of Early Cartography*, pp. 20, 22. The Anglo-Saxon map is in the British Museum, and was first published by Strutt in his *Chronicle of England*, vol. ii., and was again published in the *Magasin pittoresque*, 1840, p. 267, by Santarem in 1842, and in Lelewel's *Atlas*, pl. vii. Santarem in his *Atlas* (pl. 3, 4, 6 and 7) also gives four specimens belonging to the tenth century.

6. xi. cent. The world.

After an engraved fac-simile in Naumann's *Catalogus librorum manuscriptorum, qui in bibliotheca senatoria civitatis Lipsiensis asservantur* (Grimæ, 1838), which in turn follows an original in a manuscript of the eleventh century, written in the convent of St. John in Magdeburg, and containing beside the maps, parts of Horace, Lucan and Sallust. Cf. Santarem, *Hist. de la Cartographie*, ii. 93.

The earth is circular, surrounded by the ocean, and bisected by a canal-like water, above which is Asia, and below which, another canal at right angles to the first subdivides the lower half, with Europe on the left and Africa on the right.

There is a small sketch of it in the *Atlas* of St. Martin (pl. vi. no. 5). Santarem in his *Atlas* (pl. 8) also reproduces it; and Jomard, *Atlas* (pl. xiii.), gives it, but calls it of the tenth century. Lelewel, *Atlas* (pl. ix.), gives it as of the eleventh century.

— xi. cent.

Santarem, *Atlas*, pl. 4, 6, and 9, gives other maps of this century, the original of one being in the British Museum, and another is represented as "tiré de la Cosmographie d'Azaph."

The mappemonde of St. Sever found in a Spanish treatise by Beatus on the Apocalypse, preserved at Paris, is given in facsimile in the *Choix de Documents géographiques conservés à la Bibliothèque Nationale*, Paris, 1883. It is placed in the xth century, and accounts of it are found in Davezac's *Une digression géographique*, Paris, 1870, taken from *Le Bibliophile illustré*; and in E. Cortambert's *Trois des plus anciens monuments géographiques du moyen âge*, Paris, 1877, taken from the *Bull. de la soc. de géographie*.

Lelewel, *Atlas* (pl. ii.), gives a map of the Egyptian Abul Hassan ali Ibn Yunis (A. D. 1008), reconstructed; and, on the same plate, a map representing the habitable globe of this period; also (pl. v.) a reconstruction of a map by Abu Rihan (A. D. 1030); and (pl. vii.) a part of a map after a manuscript at St. Omer, which had been previously published by Mone in the *Anzeiger für Kunde der deutschen Vorzeit*, 1836.

7. A. D. 1063. The world.

The original of this is in a manuscript *Victorii Canon Paschalis*, preserved in the Sir Thomas Philipps' collection in England.

Kohl, referring to the delineation of a similar map, found at Dijon, given by Santarem, says that its configuration is an ordinary one in the eleventh century. In it we begin first to derive an intelligible idea of the views and aims of the early Portuguese navigators, whose explorations down the African coast harbingered the spirit which led Columbus to undertake his western voyage.

The earth is circular, surrounded by the ocean. A central belt constitutes the burnt zone. A southern belt is thought to be an inhabited region, by analogy, because the northern belt holds that portion of the world known to geographers. This northern belt gives in a rude way Europe and Asia, with northern Africa, as far south as the upper edge of the burnt zone, the island "Meroe" of the Nile lying at this point. On the burnt zone is the following inscription:—

"Zona terræ fusta quam undige sursum et deorsum circum fluit oceanus, qui a suis duabus extremitatibus oriente scilicet et occidente in septentrionem et austrum refunditur, qua refusione reumata id est ebullitiones maris fieri videntur."

8. xii. cent. The world.

The original is attached to a commentary on the Apocalypse preserved in the Royal library at Turin. It has been engraved in Pasini's catalogue of that library; and again in Santarem's *Atlas*. Kohl considers that though the Turin copy may be of the twelfth century, it is probably a copy of a much older original, and points out its resemblance to the Spanish map numbered 5 (above), though the present map is circular instead of squarish. It is figured by Daly and others as of the eighth century. Jomard, *Atlas* (pl. xiii.), gives it, and assigns it to the tenth century. Lelewel, *Atlas* (pl. ix.), calls it of the twelfth century.

9. xii. cent. The world.

The original is in the British Museum, and belongs to a manuscript concerning the Apocalypse of St. John, among the Harleian MSS. no. 2799. The Museum authorities put it down under this century; and Kohl agrees with them.

The earth is circular surrounded by water; the Mediterranean, Black, and Red Seas are united in a T shaped canal, with the upright part connecting with the external ocean at the west.

— xii. cent.

Santarem in his *Atlas* (pl. 4, 5, 7, 10, 13, 15, and 30) gives other maps of this century, one of which is called "dressée par Henri, chanoine de Mayence"; another, "tirée d'un MS. *Liber Guidonis*"; a third from a manuscript of Lambertus in the library at Gand; and also a planisphere belonging to

a MS. of the *Imago Mundi*. The last two are also in the *Atlas* (pl. viii.; also xxv.) of Lelewel, who in his *Epilogue* to his *Géog. du Moyen Age* gives several eleventh and twelfth century "rudimenta latina geographorum"; and again in his *Atlas* (pl. viii.) gives one from a manuscript of A. D. 1119 of the bibliothèque de Bourgogne at Brussels.

— A. D. 1160.

There are sketches of Edrisi's map of the world in St. Martin's *Atlas* (pl. vi. no. 10), and in Daly's address, where it is dated 1154. Lelewel (vol. i. and *Atlas*, pl. x., xi., and xii.) gives it, and dates it 1154; and he also gives a "tabula rotunda Rogeriana restaurata."

It is circular, with a surrounding ocean, of which the Mediterranean and Indian seas are arms, running to the centre from the west and east respectively. The lakes which feed the Nile are prototypes of the great Albert and Victoria lakes of our day. The map was made by an Arabian geographer, Edrisi, by direction of King Roger of Sicily, and engraved on a round plate of silver, from which what are supposed to be copies exist in the National library at Paris and in the Bodleian at Oxford. The latter copy is the most perfect and has been published by Vincent.

10. xiii. cent. **The world by Mathew of Paris.**

The original belongs to an undated manuscript, *Flores historiarum*, preserved among the Cottonian MSS. in the British Museum, and Kohl says it resembles another map of the same supposable age in the same collection, which I judge to be one of those figured in Santarem's *Atlas* (pl. 14). It is also in Lelewel. The map gives only the habitable part of the earth, mainly the basin of the Mediterranean Sea and its tributaries, but its features would not be recognized except for the names. It has the following inscription:—

"Sumatim facta est dispositio mappa mundi magistri Rob' de melkeleya et mappamundi de Waltham. Mappamundi domini regis quod est in camera sua apud westmonasterium figuratur in ordine Mathei de Parisio. Verissimum autem figuratur in eodem ordine, quod est quasi clavis extensa, talis est suma nostre partis habitabilis secundum philosophos sed quarta pars terre que est triangularis fere. Corpus enim terre sphericum est."

Santarem has given this map in his *Atlas*, pl. 14; and also others of the thirteenth century (pl. 4, 6, 7, 21), including a planisphere of Cecco d' Ascoli, another of Irish origin, and a mappamonde preserved in the library at Leipsic. Jomard in his *Atlas* (pl. xiii.) gives one preserved in the British Museum, and another called the Playfair map.

The well-known map of the world in the Hereford cathedral, an oval with Jerusalem in the centre, is also assigned to the thirteenth century. It is given in Jomard's *Atlas* (pl. xiv.).

11. A. D. 1283. **The world by the Arabian, Kasvini.**

The original is in the collection of the duke of Gotha.

A circle of high mountains encloses a circular ocean, within which as a circular island is the earth. The Arabian peninsula is in the centre, with the Red Sea like a sickle about it, the Persian Gulf forming with the China seas a parallelogram of water connecting with the external ocean. The Arabian names are translated into German.

A fac-simile of an Arabian sea-chart of the thirteenth century, preserved in the Ambrosian library at Milan, was issued by Ongania at Venice in 1881.

— xiv. cent.

Various other sea-charts, portolanos and planispheres of the fourteenth century have been brought before the public of late years. Sea-charts of Pietro Visconte di Genova, of 1311 and 1318, preserved respectively in the archives of Florence, and in the Museo civico di Venice were published in fac-simile in 1881 and 1875 by Ongania of Venice. That of 1318 is given also by Santarem, *Atlas*, pl. 33. Ongania also issued in 1881 an anonymous portolano of 1351, preserved in the Biblioteca Mediceo-Laurenziana at Florence (Lelewel also gives this); a planisphere of Giovanni da Carignano, from the archives of Florence; and an anonymous portolano from the Biblioteca Marciana. Jomard, in his *Atlas* (pl. xi.), gives a "Carte Marine" of the fourteenth century, the property of a Pisan family. A facsimile is included in *Choix de documents géographiques conservés à la Bibliothèque Nationale*, Paris, 1883. Jomard also gives (pl. xiii.) a map of near the end of the century. A map from the Chronicle of St. Denis (1364-1372) in the Ste. Geneviève library at Paris, is given in Santarem (pl. 16 and 17), Jomard (pl. xiii.), and Lelewel (pl. xxvi.).

Santarem also includes in his *Atlas* (pl. 3, 4, 8, 27, 36, 39, 60) two mappemondes, a planisphere belonging to a work of Guillaume de Tripoli (also in Lelewel, pl. xxvi.), a portolano from the Paris library, and a sea-chart from the archives of Luzerne.

Lelewel, *Atlas* (pl. xxviii.), gives an "imago mundi" as belonging to a manuscript (Prisciani) of the fourteenth century, in the library at Arras, which had been published in 1836 by Mone in the *Anzeiger für Kunde der deutschen Vorzeit*.

12. A. D. 1321. **The world by Marino Sanuto.**

The original is among the Tanner MSS. in the Bodleian library, and belongs to a treatise *Secreta fidelium crucis*.

The map is circular with the earth nearly filling its limits, the ocean forming the outer rim. The Mediterranean is tolerably drawn, as are the British islands and the Scandinavian peninsula.

Other maps by Sanuto are known, and they have a general likeness to each other. One of 1306 is given by Camden, — this has the Fortunate Islands, which are omitted in the map of 1321. Another of 1320 was published not wholly accurately by Bongars in 1611 in his *Gesta dei per Francos*, and this has been figured by St. Martin in his *Atlas*, pl. vi. no. 3. Santarem (*Atlas*, pl. 18, 19, 20) gives one from the library at Paris, another from the library at Brussels, and a third of 1321, not placed.

Lelewel (*Atlas*, pl. xxvii.) gives a Marino map of 1360, as from a Paris manuscript, *Chronicon*, which he says he perfected by collating the Brussels copy. Jomard, in his *Atlas* (pl. xiii.), gives a map preserved at Paris, as of the fourteenth century, which closely resembles this no. 12.

13. A. D. c. 1350. **The world by Hygden.**

The original is in the manuscript *Polychronicon* of Ranulphus Hygden, preserved in the British Museum, the work being a history of the world down to 1357.

The earth is an oval-like island, with pointed ends, east and west, — resting in an ocean of corre-

sponding shape with some islands in its western parts. Only two seas indent its outline,—the Red Sea and Persian Gulf. Paradise is the extreme eastern apex.

The map is examined by Santarem in his *Histoire*, iii. 82.

14. A. D. c. 1350. The world by Hygden.

The original is also in the manuscript named under no. 13.

Its delineation is much more elaborate. The shape is oval, with the longest diameter east and west. The surrounding ocean is filled with islands. The Mediterranean and Indian seas are rudely delineated. Cf. Santarem, *Hist. de la Cartographie*, iii. p. 3.

St. Martin (*Atlas*, pl. vi. no. 4) and Lelewel date it 1360. It is also included in Santarem's *Atlas* (pl. 9). It was figured in the *Magasin pittoresque* (1849), and from this Lelewel copied it, in his *Atlas* (pl. xxv.).

This copy of Kohl's reproduction is without notes; a second copy, 14*, has notes, and is put "about 1360."

15. A. D. 1367. Atlantic islands by the brothers Pizigani.

Dr. Kohl gives only the coasts of south-west Europe and north-western Africa, with the islands, which he identifies with the Canaries, Madeira, and the Azores,—considering it one of the earliest representations of these islands. He says he got his copy from Jomard; but does not consider it a good one.

The chart has since been given in full by Jomard (pl. x.) and Santarem (pl. 40). Ongania, of Venice, published in 1881 a fac-simile of a sea-chart of Francesco Pizigani, preserved in the Ambrosian library at Milan, which he dates 1373.

16. A. D. 1375. Catalan mappemonde.

This is preserved in the Bibliothèque Nationale at Paris; and it originally belonged to the library of Charles V. in the Louvre. It is "en langue romane catalane du xiv^e siècle."

It represents the known world from the Canaries to Catayo; but Dr. Kohl only gives the Canary Islands and the adjacent coast.

It is given in full with a Key in Sophus Ruge's *Geschichte des Zeitalters der Entdeckungen*, 1881; also in *Manuscrits de la Bibliothèque du Roi*, etc., Paris, vol. xiv. Part 2, p. 1; in Santarem's *Atlas* (pl. 31, 40); Lelewel's *Atlas* (pl. xxix.); St. Martin's *Atlas* (pl. vii. no. 1); and full size in facsimile in twelve sheets in *Choix de Documents géographiques conservés à la Bibl. Nat.*, Paris, 1883.

— xv. cent.

Santarem gives three mappemondes of this century without definite date,—one in the Musée Borgias (pl. 24), one in the Medici library at Florence (pl. 26), and the other as given by La Salle. Lelewel (pl. xxxv.) gives a map of the world as belonging to a MS. of Sallust at Geneva.

Ongania, at Venice, published in 1881, a fac-simile described as a "Planisfero del mondo conosciuto (in lingua catalana) di anonimo del xv secolo," from an original preserved in the Biblioteca nazionale at Florence.

— A. D. 1410.

A planisphere of Pierre d'Ailly is given in Santarem (pl. 15) and in Lelewel (pl. xxviii.). It is described in Santarem's *Hist. de la Cartographie*, iii., 301.

17. A. D. 14...? Juan da Napoli's Portolano.

This gives only the Atlantic islands from a portolano, which Kohl thinks represents the knowledge of a time not long after 1400. It belongs to an Atlas made in Venice, which is among the Egerton MSS. in the British Museum, whose catalogue, says Kohl, assigns the atlas to 1408. "Illa da Brazil" is represented off the coast of Ireland.

— A. D. 1417.

A map of the world belonging to a manuscript of Pomponius Mela in the library at Rheims.

The earth is within a circle, with the ocean surrounding it; and the Mediterranean, extending into the land, is as usual the prominent feature.

It is given by Jomard, *Atlas* (pl. xiii.), as of the fifteenth century; and is also in Santarem, *Atlas* (pl. 22); Lelewel, *Atlas* (pl. xxxiii.); St. Martin, *Atlas* (pl. vi. no. 6).

— A. D. 1424.

Santarem (pl. 41) gives a "Carte de la bibliothèque de Weimar."

— A. D. 1426.

A portolano of a Venetian hydrographer Giacomo Giraldi is preserved in the Biblioteca Marciana at Venice. It was reproduced at Venice in 1881 by Ongania.

18. A. D. 1436. The Atlantic Islands by Andrea Bianco.

19. A. D. 1436. The world by Andrea Bianco.

The original of no. 19 is preserved in the Biblioteca Marciana at Venice. Kohl implies that No. 18 is not taken from no. 19, but follows an independent sea-chart by Bianco, in which this portion of the large map was reproduced with the names "Antilia," etc. inserted, while they were omitted in the larger map,—at least Lelewel omits them, whose engraving Kohl follows. There is a "Carta nautica" by Bianco, dated 1448, preserved in the Biblioteca Ambrosiana at Milan, and of this a fac-simile was issued by Ongania at Venice in 1881.

Map no. 19 is given in full in Lelewel (pl. xxxii.) and in Santarem (pl. 23, 43); and other references are given in Winsor's *Bibliography of Ptolemy's Geography*, sub anno 1478.

Bianco's views are of interest in early American cartography from the deductions which some have drawn from the configuration of the islands "Antilia" and "De la man Satanaxio,"—two islands on its western verge,—that they represent Pre-Columbian discovery of South and North America. Humboldt, *Crit. Untersuchungen*, i. 413, 416, has discussed this question, and pointed out that an island "Antilia" had earlier appeared on a map of 1425, and Davezac finds much earlier references to such an island. Santarem (*Hist. de la Cartographie*, &c., iii. 366, has fully described Bianco's work.

— A. D. 1439.

Santarem (pl. 54) gives a "Carte de Gabriell de Valsequa, faite à Mallorcha en 1439."

— A. D. 1447.

This is described in a fac-simile issued by Ongania at Venice in 1881, as a "planisfero terrestre di forma ellittica di anonimo, in lingua latina, dell' anno 1447." The original is in the Biblioteca Nazionale at Florence.

Lelewel, in his *Epilogue*, p. 167, refers to a Genoese map in the Pitti Palace, which gives Greenland as "Grinlandia"; and it is also referred to by De Costa in the *Mag. of Amer. History*, Apr. 1883, p. 290, who confirms the date, 1447, as given by Lelewel, though Santarem, *Hist. de la Cartog.*, iii. p. xix. put it 1417.

20. A. D. 1448. The world by Giovanni Leardo.

Dr. Kohl gives this map, which is of the ordinary circular form, free from most of the names, which fill it; but Santarem (pl. 25) gives it with the names. The map is at Vicenza, where it was discovered forty or fifty years ago by M. Lazari. Cf. Santarem, *Hist. de la Cartographie*, etc., iii. 308. A fac-simile of it was issued at Venice in 1880 by Ongania, with the date of 1452.

— A. D. C. 1450.

A fac-simile of this map preserved in the Museo Comunale at Mantua, issued at Venice by Ongania in 1881, describes it as a "Portolano membranaceo di anonimo dell' anno 1450 (circa)."

— A. D. 1455.

A sea-chart by Bartolomeus de Pareto, showing "Antillia," and an island farther west named "Roillo." I am not aware that any copy of it has been published. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1478.

21. A. D. 1460. The world by Fra Mauro.

The original is preserved at Venice, in the Biblioteca Marciana.

It is circular, and the delineation of Asia is better than on preceding maps. Kohl says that Mauro knew the works of the Italian and Arabian geographers, and the marine charts of the Portuguese, which were given to him by Don Alonzo V.

Dr. Kohl speaks of the most exact copy made of it by order of Lord Hobart in 1804, and of the reproduction given by Vincent in *Commerce and Navigation of the Ancients*, 1797 and 1807. He thinks it was finished in 1460. It is given by Santarem (pl. 43-49) with the dates 1459 and 1460. Lelewel (pl. xxxiii.) places it 1457-59. Ruge in his *Geschichte des Zeitalters der Entdeckungen*, 1881, gives it and dates it 1459. A photographic fac-simile, issued at Venice in 1877, by Münster (Ongania), dates it 1457, and St. Martin (pl. vii. no. 3) follows this fac-simile.

— A. D. 1467-1471.

Marine charts of Grazioso Benincasa, given in Santarem (pl. 55-58).

— A. D. 1474.

The map which the Italian geographer, Toscanelli, sent to Columbus, and which influenced him, though

known to be preserved in Madrid in 1527, has not since been traced. Lelewel, *Glog. du Moyen Age*, ii. 130. An attempted restoration of it is given in St. Martin's *Atlas* (pl. ix.)

— A. D. 1475.

Mappemonde in the *Rudimentorum novitiorum*, given by Santarem (pl. 28).

— A. D. 1476.

A portolano of Andreas Benincasa, given in St. Martin (pl. vii.), and in Lelewel (pl. xxxiv.). A much reduced sketch is given by Daly, p. 26.

It shows "Antilio" as a western island, and the "Isola de Braçill," west of Ireland.

— A. D. 1482.

The mappemonde, in the edition of Ptolemy published at Ulm, represents "Engroneland" as stretching from northwestern Europe, and it is said the map was made before 1471.

— A. D. 1486.

What is known as the Laon globe, though dated 1493, represents rather the knowledge of this time. It gives "Grolandia" as an island of the Norway coast, and has an island, "Antela." Davezac gives a projection of it in the *Bulletin de la Société de Géographie* (1860), xx. 417. Cf. also Davezac on the "Îles fantastiques" of the middle ages in the *Nouvelles Annales des Voyages*, 1845.

22. A. D. 1489. The Atlantio Islands by Cristofalo Soligo.

The original is preserved among the Egerton MSS. in the British Museum, in a portolano of different Venetian map-makers. There is no date, but 1489 is given in the Catalogue of the Museum as the approximate date of the collection.

Kohl thinks the chart based on that of Benincasa (1463), which he says is in his collection, but no copy of it is found here. "Antillia" is called "Y. de Sete Zidade," and is put west of the Azores, and this group as well as others includes various fabulous islands.

23. A. D. 1490. Portuguese map of the world.

The original is annexed to a Latin theological treatise (MS.) in the British Museum, and because it marks the extent of the Portuguese exploration of the African coast in 1489, and does not show the results of Vasco da Gama's voyage, Kohl places it about 1490. He says the language of the map is partly Portuguese and in part Italian, and his conclusion is that it is the work of an Italian settled in Lisbon. The western shore of Africa is given with approximate correctness, — much better than in any earlier map. A long peninsula at the northwest of Europe, though without name, seems to correspond to what is called in other maps Greenland.

I suppose it to be the map given "for the first time" in Santarem (pl. 50).

— A. D. 1492.

The Globe of Behaim, preserved at Nuremberg, represents the best knowledge at the time of the sailing of Columbus, though Peschel (*Zeitalters der Entdeckungen*, 1858, p. 90) allows Behaim to have

been but a mediocre cosmographer. Reproductions of it are given in Santarem (pl. 61) and in St. Martin (pl. ix.), and in other places mentioned in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno, 1478. Lelewel, who gives it (pl. xl.), says in his *Epilogue*, p. 184, that the Behaim family caused it to be put in good order in 1825, after it had been long neglected in the town hall at Nuremberg; and that in 1847 a copy of it was made for the *Dépôt Géographique* at Paris.

24. A. D. 1493. Map in the Nuremberg Chronicle.

This is a sketch from the map in Hartmann Schedel's *Liber Chronicarum*, usually known as the "Nuremberg Chronicle," having been published in that city.

The map preserves the old idea of the connection of Africa and Asia enclosing the Indian Sea.

25. A. D. 1497. Vasco da Gama's route.

Dr. Kohl includes this modern map, in which Da Gama's route to and from India by the Cape of Good Hope is pricked, to show how near he came to the South American coast, which Cabral, on a similar voyage, discovered three years later. The route is that established by the studies of Diogo Hopke and Costa Paiva.

— A. D. 1497.

A carta nautica of Conte Freducci, preserved at Wolfenbüttel, shows an "isola de Braçil." Cf. Lelewel, ii. 106; *Studi biog. e bibliog. della Soc. geog. italiana*, ii. 94; Santarem, in *Bull. de la Soc. géog. de Paris*, 1847, i. p. 312.

II.

THE TWO AMERICAS.

26, 27. A. D. 1500. Juan de la Cosa.

These duplicate maps represent the American parts of the La Cosa map now at Madrid. Kohl copies the representation of it given in connection with Humboldt's essay appended to Ghillany's *Ritter Martin Behaim*. (1853). Humboldt had earlier given the American parts in his *Examen Critique*, vol. v. (1839), but not very accurately. The best reproduction of the whole map is in Jomard's *Atlas*, pl. 16, and there are reductions from Jomard in Stevens's *Hist. and Geog. Notes*, 1869, pl. 1, and (with references) in the *Narr. and Crit. Hist. of America*, iii. p. 8. Other reproductions of the American part are in Lelewel's *Atlas*, no. 41, and in De la Sagra's *Cuba*. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1508; the App. to Irving's *Columbus* and Enrique de Leguina's *Juan de la Cosa, Estudio Biográfico*, Madrid, 1877.

— A. D. 1501-1505.

A Portuguese chart of this date is supposed to be given in the map of the 1513 Ptolemy (see post, no. 32). Another in that preserved at Munich, which is given by Kunstmann in his *Atlas*, pl. iii., and by Kohl in his *Discovery of Maine*, p. 174. A chart resembling these two has been found in the possession of the Este family in Modena, on which the exact date of 1502 is given. It is described, with a facsimile, in HARRISSE's *Cortereats*; and is also referred to in his *Cabots*, pp. 143, 158. The map as-

cribed to Pedro Reinel is also at Munich, and is likewise given by Kunstmann; but there is strong ground for suspecting it to be of considerably earlier date, perhaps antedating Cabot. Cf. references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1508.

Peter Martyr mentions a chart said to have been made for the Portuguese by Vespuccius, which is not now known. Santarem has pointed out that the narrative of Corsal in Ramusio shows that charts were often sent from Portugal during these years to the Portuguese ambassador in Rome.

28. A. D. 1508. Ruysch in the Ptolemy of 1508.

Dr. Kohl refers to Humboldt's introduction to Ghillany's *Martin Behaim*; Walckenaer's *Recherches géographiques sur l'Intérieur de l'Afrique septentrionale*, and the *Biographie Universelle*, vi. 207.

There are reproductions of the map in Santarem, Lelewel, and in various other places named in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1508. An original copy of the map is in Harvard College library. A section of the northern part is given in the *Journal of the Amer. Geog. Society*, vol. xii. p. 179. Cf. Stevens's *Bibliotheca Geog.*, no. 3058. It is thought that Ruysch used Columbus's draughts.

HARRISSE, *Notes on Columbus*, p. 56, thinks Ruysch's map is referred to by Johannes Trithemius in a letter, Aug. 12, 1507 (published in his *Epistolae Familiares*, 1536), in which he complains that he could not afford to purchase a map of the new world for forty florins.

— A. D. 1510-1512.

The Lenox globe, preserved in the Lenox library in New York, of which drawings are given in the *Mag. of Amer. Hist.*, Sept. 1879; *Ency. Brit.*, x, 681, etc.; and *Narr. and Crit. Hist. of America*, iii. p. 212.

— A. D. 1511.

A carta nautica of Salvat de Pilestrina of Majorca, preserved in the archives of the Ministry of War in Munich. Cf. Kunstmann, *Die Entdeckung Amerikas*, p. 129; Thomas, *Der Periplus des Pont. Eux.*, p. 7; and Winsor's *Bibliog. of Ptolemy's Geography*, sub anno 1508.

29, 30. A. D. 1511. In Sylvanus's Ptolemy.

No. 29 is the western half of this cordiform map; no. 30 gives the whole map, with minor errors corrected in pencil by Dr. Kohl.

The map is given in Lelewel (pl. xlv), and there are various references in Winsor's *Bibliog. of Ptolemy's Geography*, sub anno 1511. Kohl's drawings are taken from the Grenville copy on vellum in the British Museum; and he points out how the contour of South America is the same as that of the Ruysch map, while Cuba is completed as an island, and Greenland is restored to its earlier connection with Europe. Cf. Zurla, *Marco Polo*, ii. 358.

— A. D. 1511.

The map described by D'Avezac in his *Atlas hydrographique de 1511 du génois Vesconte de Maggiolo*, Paris, 1871, originally in *Bulletin de la Soc. Géog. de Paris*, 1870, p. 404. The original is in the collection of Don Riccardo Heredia in Madrid, having been bought by him at public sale in Paris in 1870 for 1500 francs. It is inscribed "Vesconte de Maiolo

civis Janue composuy in Neapoles de anno 1511, die xx January." It shows America from Labrador to Cape St. Augustine. Cf. Desimoni in *Giornale Ligustico*, ii. 52; *Studi Biog. e Bibliog. della Soc. geog. ital.*, ii. p. 106, and references to the cartographical work of Maggiolo (Maiolo) in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1511.

— A. D. 1511.

Peter Martyr's map of the West India islands and adjacent coast was published with his first *Decade, Legatio Babylonica*, at Seville, and has been reproduced in various places. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1513. Few copies of the original are known. HARRISSE is inclined to think that it does not belong to Peter Martyr's book, because three copies in the original vellum, which he has examined, do not have it. Cf. STEVENS, *Bibl. Geog.*, no. 2954. Brevoort, *Verrazano*, p. 102, thinks its publication may have been offensive to the Spanish government, which might consequently have suppressed it. The later editions of 1516 and 1530 have no map. Brevoort adds that no official map of America was printed in Spain till 1790. The Cabot map of 1544 seems to have been compiled from Spanish sources; but it is not known where it was published; and that but a single copy is saved to us may also signify that it was suppressed by Spanish influence. The map of Medina in 1545 was a mere sketch.

31. A. D. 1512. *Stobnicza*.

A facsimile of the rare map belonging to Johannes de Stobnicza's *Introductio in Claudii Ptholomei Cosmographiā*, Cracovia, 1512. Kohl used the copy in the Munich library. There are other copies now known, and for notes of these, and other references, see Winsor's *Bibliog. of Ptolemy's Geography*, sub anno 1512. There are facsimiles of the map in whole or in part in the *Carter-Brown Catalogue, Narr. and Crit. Hist. of America*, iii. 13; and in DALY's address on *Early Cartography*, p. 32.

— A. D. 1512-14.

A sketch of the northern and southern hemispheres, of four gores each, in the Queen's collection at Windsor, and ascribed by R. H. Major, in the *Archæologia*, vol. xl., to Leonardo da Vinci, and placed under 1512-1514. Wieser, in his *Magalhães-Strasse*, gives it a modern hemispherical projection, and puts it in 1515-1516. It has lately been asserted that it is not the work of Da Vinci. Cf. J. P. Richter's *Da Vinci*.

32. A. D. 1513. *In the Strasbourg Edition of Ptolemy.*

This is the "Tabula Terre nove" of this edition, and Kohl points out that the names on the South American coast are carried no farther west than the extent of the voyage of Hojeda in 1499, and no farther south than Vesputius went in 1503, while the connection, which is made between the northern and southern continents, must have been based on reports, without particulars.

This map, supposed to have been in some way connected with Columbus's own charts is often called "the admiral's map," and its connection with Cabral and Vesputius has also been supposed. The maker of the map was Waldseemüller or Hylacomylus, and Lelewel (ii. 143) gives reasons for believing that it had been engraved and sold as early as 1507, having

been made at the expense of Duke Rene II.; but the plate does not seem to have been used in any book till in this 1513 edition of Ptolemy. Lelewel supposes it to be in effect a Portuguese chart made in 1501-1504, and engraves it as such (pl. 43) and it is known that La Cosa complained of the Portuguese frequenting the coast in 1503. Facsimiles of the map are given in Varnhagen's *Premier Voyage de Vespucci*; Stevens's *Hist. and Geog. Notes*, pl. 2, and *Narr. and Crit. Hist. of Amer.*, iv. p. 34. Cf. the references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1513.

Of the other map in this Ptolemy, "Orbis typus universalis," Kohl gives no copy; but a facsimile can be found in Ruge's *Geschichte des Zeitalters der Entdeckungen*, Berlin, 1881. It shows a part of South America, with the islands "Isabella" and "Spagnolla," with a bit of coast to the north which seems to represent the Cortereal regions. Greenland projects from Europe.

Cf. D'AVEZAC's *Martin Hylacomylus Waltzemüller, ses ouvrages et ses Collaborateurs*, Paris, 1867, — extracted from the *Annales des Voyages*, 1866.

— A. D. 1514.

A map (12 gores of a globe) found in a copy of the *Cosmographiæ Introductio*, Lugduni, and engraved in a *Catalogue* of Tross, the Paris bookseller, 1881. HARRISSE, in his *Cabots*, p. 182, has ascribed it to Louis Boulenger. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1522.

— A. D. 1514-1520.

A Portuguese portolano given in Kunstmann's *Atlas*, pl. iv., and in Stevens's *Notes*, pl. v. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1522.

33. A. D. 1515. *Reisch's Margarita Philosophica.*

A facsimile of the map in this book, which was published at Strasbourg in 1515. Kohl used a copy in the library at Munich. The name "Zoanamela" is given to North America, borrowed, Kohl thinks, from the *Paesi nuovamente ritrovati* (lib. iv.), where it is said Columbus discovered a country of this name. Both Cuba and Santo Domingo are called "Isabella." South America is called "Paria seu Prisilia."

The map resembles the "Terre Nove" of the 1513 Ptolemy. The Ptolemy map is bounded on the west by the edge of the sheet, which cuts at the same place, where a scale of longitudes is placed in the Reisch map. West of this scale is "Zipagiu insula," which is thus put relative to the new lands in the same position as in the Stobnicza map. The river with three mouths, running into the gulf, which is in the Ptolemy map (thought by some to represent the Ganges), is left out by Reisch. Others, like Varnhagen, have considered this gulf that of Mexico, and the river the Mississippi.

There is a facsimile of Reisch's map in Stevens's *Hist. and Geog. Notes*, pl. 4. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1513.

The first edition of Reisch appeared at Freiburg in 1503. In the next year (1504) there were two editions, one Schott, the other Grüninger, which is priced by Leclerc (*Americana*, no. 2965) at 200 francs, and has a mappemonde, with no other indication of America than the inscription near the African coast: "Hic non terra sed mare est in quo miræ magnitudinis insulæ sed Ptolemæo fuerunt incognitæ." Quaritch (no. 12,363) has a copy dated 1508, with the same map, which he called "the only

known copy in which the map is to be found." The edition of 1515 had the map above noticed. (Harris, *Bib. Am. Vet.* no. 82; *Additions*, no. 45, noting copy in the Imperial library at Vienna.) That of 1517 (Basle) has a woodcut map which is still different. (*Beckford Catalogue*, iii. no. 1256.) Not till 1535 did any edition have any reference in the text to America. *Bib. Am. Vet.* no. 208. The latest edition was in 1583, which was published at Basle. It has a map of the world showing America. (Leclerc, no. 2926.) It is priced at 25 marks and £7.

— A. D. 1519.

Portolano by Maiollo figured in Kunstmann's *Atlas* (pl. v.), in Santarem, and in Thomas's *Der Periplus des Pont. Eux.* It shows the Atlantic coast and the line of demarcation. Cf. *Studi biog. e bibliog. della Soc. geog. ital.* ii. p. 109; *Atti Soc. ligure*, 1867, p. 92; Kohl, *Die beiden Generalkarten* 30, 146; Desimoni in *Giornale ligustico*, ii. p. 54.

Enciso, in the dedication of his *Suma de Geographia*, Sevilla, 1519, mentions a map which he had made to elucidate his text for Charles I. (Charles V., later); but it is not now known.

34. A. D. 1520. **The Frankfort Globe.**

Only the American parts, with Japan, (Zipangu) are given of a globe preserved at Frankfort-on-the-Main.

Kohl conjectures the date to be 1520 because of its correspondence with a globe of that date made by Schöner, and he suspects this may also be the work of that globe-maker, while Wieser, in his *Magalhães-Strasse* (p. 19), where an engraving of it is given, declares it to be the globe made to accompany Schöner's *Luculentissima quadam Terra totius Descriptio*, printed in 1515, and of which two copies are now known. This at Frankfort, of which Jomard (pl. 15) gives a drawing, and another at Weimar. Cf. references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1522.

35. A. D. 1520. **Schöner's Globe.**

Only the American portion is given, but without comments. The globe is preserved at Nuremberg, and there are representations of it given in Kohl's *Geschichte der Entdeckungsreisen zur Magellan's-Strasse*, Berlin, 1877, p. 8; in *Harper's Magazine*, Dec. 1882, p. 731; in Ghillany's *Martin Behaim*, Santarem, Lelewel, Wieser, etc. Cf. references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1522.

36. A. D. 1520. **In Camers's Edition of Solinus.**

This cordiform map is by Petrus Apianus (or Bienewitz, as he was called in his vernacular), appeared in the *Polyhistoria* of Solinus, edited by the Italian monk, Camers, and also in 1522 in the *De Orbis Situ* of Pomponius Mela, published by Vadianus.

There are facsimiles of this map in the *Carter-Brown Catalogue*, and in Santarem's *Atlas*.

Cf. references in Winsor's *Bibliog. of Ptolemy's Geography*, sub anno, 1522.

37. A. D. 1522. **In the Ptolemy of 1522.**

The map "Orbis Typus Universalis," signed "L. F.," showing part of South America and Cuba, the whole of "Spagnollo," and no other part of America; "Islandia" (Iceland) being placed off the point

of Norway, and "Gronland" being shown as a projection of Europe. The name AMERICA is on South America. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1522. This map of Laurentius Frisius was repeated without change of date in the Ptolemy of 1525, and again in that of 1535.

Kohl does not include in this collection another map of this 1522 Ptolemy, called "Tabula terre nove," which is a re-engraving of the map numbered 32, *ante*. Also repeated in the 1525 and 1535 editions.

— A. D. 1524.

Two small maps in Apian's *Cosmographicus liber*, published at Landshut. Cf. Harris, *Bib. Am. Vet.* no. 127, and *Additions*, p. 87. The edition of 1529 (*B. A. V.* no. 148) has annotations by Gemma Frisius, a pupil of Apian; and in the same year his *Cosmographia introductio* (1529) is an abridgment of the large work (*B. A. V.* no. 149). The Antwerp edition (1528) of the *Cosmog. liber* has no map. There were other editions at Venice in 1533, and at Antwerp in 1534 (*B. A. V.* nos. 148, and *Additions*, nos. 88, 100, 106.) Cf. Winsor's *Bibliog. of Ptolemy*, sub anno 1540; and Harris, *Notes on Columbus*, p. 174.

The Prémontre globe of about this date. Cf. Winsor's *Bibliog. of Ptolemy*, sub anno 1540.

— A. D. 1525.

Harris, *Bib. Am. Vet.* no. 133, cites the *Yslegung der Mer-Carthen or Cartha Marina*, and ascribes it to Laurentius Frisius. It has two large maps. Kohl gives a portion of the northeast coast of America (later to be mentioned). The 1530 ed., *Underweidung und Auslegung der Cartha Marina*, published at Strasburg (*B. A. V.* no. 158), has no maps.

— A. D. 1526.

A map by the Monk Franciscus, figured in Lelewel, pl. 46, showing North America as a part of Asia. The original is called "Hoc orbis hemisphaerum cedit regi Hispaniae." It appeared in the *De orbis situ ac descriptione Francisci epistola*. Cf. Harris, *Bib. Amer. Vet.* no. 131, where it is put under 1524.

38. A. D. 1527. **The so-called Hernando Colon map.**

The original (on parchment) is anonymous, and in the Grand-Ducal library at Weimar, and is dated at Seville in 1527. During the sixteenth and seventeenth centuries it had been kept in Nuremberg. Kohl, as has been the custom, assigns it to Ferdinand Columbus, but Harris dismisses his and other claims, and is inclined to ascribe it to Nuño Garcia de Toreno. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540, for references. It shows the line of demarcation, as established between Spain and Portugal, or rather the Spanish view regarding that vexed question. Kohl later published a facsimile of the American parts of this map in his *Die beiden ältesten Generalkarten von Amerika*, Weimar, 1860.

39. A. D. 1527. **Robert Thorne's map.**

This map was made by an English merchant, living in Seville, who sent it to England, where it was published by Hakluyt in his *Divers Voyages*

in 1582, and is reproduced in the Hakluyt Society's edition of that book; and for the American portion in the *Narr. and Crit. Hist. of America*, iii. 17, and in Brown's *Cape Breton*, p. 22. Thorne professes to have "discovered the secrets" of the licensed map-makers of Spain.

Cf. Winsor's *Bibliog. of Ptolemy*, sub anno 1540.

— A. D. 1527.

A map by Maiollo, preserved in the Biblioteca Ambrosiana at Milan, which is in part figured in Desimoni's *Giovanni Verrazzano*, 3d app., Genoa, 1882; and in the *Narr. and Crit. Hist. of America*, vol. iv. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540. The date has been altered to 1587. *Studi biog. e bibliog. della soc. geog. ital.*, 1882, ii. pp. 113, 154.

— A. D. 1527.

The *Studi biog. e bibliog. della soc. geog. ital.* ii. p. 113, and *Atti soc. ligure*, 1867, p. 174, refer to a map of Baptista Agnese of this date in the British Museum; but the date is earlier than is usually assigned to this cartographer. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

The *Studi*, etc., ii. p. 114, also cites a carta nautica of about 1527, preserved in the Biblioteca Laurenziana, at Florence, which shows the east coast from Labrador to the Straits of Magellan.

40. A. D. 1528. **The world by Coppo.**

The original belongs to a rare book called: *Portolano delli Lochi maritimi ed isole de Mar . . . composto per Piero Coppo*, Venetia, 1528, of which there is a copy in the Grenville Collection, British Museum. The representation, which fills two pages of the book, is different from any other. America is represented by a large group of islands, of which "Mondo Novo" (South America) is the most extensive. Cf. Zurla, *Fra Mauro*, p. 9, and his *Marco Polo*, ii. p. 363; HARRISSE, *Bib. Am. Vet.*, no. 144. The Kohl MS. in the Amer. Antiq. Soc. has another drawing of the map, and it is sketched in the *Narr. and Crit. Hist. of America*.

Coppo refers to Columbus in a passage quoted by HARRISSE, *Notes on Columbus*, p. 56, from a citation in Morelli's *Opere*, i. 309.

— A. D. 1528. (See no. 48.)

The map of the world in Bordone's *Libro*, later known as the *Isolario*. It is sketched in H. H. Bancroft's *Central America*, i. 144. Lelewel (pl. 46) dates it 1521, since all the maps in the book are supposed to have been made then or earlier. It was reissued in 1533. Cf. references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

41, 42. A. D. 1529. **Ribero's map.**

These copies give only the American parts of this map of the world. Kohl in these drawings copied the draft of it by Güssefeldt, which was given in a monograph by M. C. Sprengel, *Über Ribero's älteste Welt-karte*, published in 1795, which followed a copy at Jena, and which Kohl says he follows in lieu of something better. In 1860, Kohl reproduced the Weimar original in his *Die beiden ältesten General-Karten von America*. The entire map is given in Santarem; in Lelewel, and in Rüge's *Geschichte des Zeitalters der Entdeckungen* (1883). There is another early copy in the Archivio del Collegio di Propa-

ganda at Rome. Cf. the references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540, and the *Bull. de la Soc. de Géog. de Paris* (1847), i. p. 309.

Referring to the Newfoundland region, Kohl thinks Ribero may have seen and used a map of these parts made in 1506 by a Frenchman. This refers to Charlevoix's statement of a map made by Jehan Denys; but HARRISSE, *Cabots*, p. 250, pronounces it "absolument apocryphe." A facsimile of an undated map of the Ribero type was published by the Spanish Government in the *Cartas de Indias* in 1877.

A Spanish planisphere in the possession of the Marchesi Castiglione in Mantua shows the whole Atlantic coast of both Americas, and on the Labrador coast has this legend: "Tierra que descubrio Estevan Gomez este año de 1525 por mandado de su majestad." Cf. *Studi biog. e bibliog. della Soc. geog. ital.*, ii. no. 412; Portioli, *Carte e memorie geographiche in Mantova* (1875), p. 24.

— A. D. 1529.

A planisphere of Hieronimus Verrazzano in the Museo Borgiano at Rome, which has been given in whole or in part in the monographs on Verrazzano by J. C. Brevoort, H. C. Murphy, and B. F. De Costa. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540, and *Studi biog. e bibliog. della Soc. geog. ital.* ii. p. 116.

This same, *Studi*, etc., ii. p. 116, quotes a carta nautica of this date (1529) as being in the British Museum, and ascribed to Baptista Agnese.

43, 44. A. D. 1530. **In the Sloane Mss., Brit. Museum.**

The original is attached to a manuscript *De principiis astronomie*, and placed by its Catalogue at about 1530. There is no date on the map, but the inscription on the coast above Florida is: "Terra Franciscana nuper lustrata," which may refer to Verrazano or Cartier; if to Cartier the date would be 1536 or later. North America is a continuation of Asia eastward. South America is cut off by the bottom of the map at 40°; but an inscription at that point says: "Hic ultra 55 g extendit." The map is very like the cordiform map of Orontius Finæus reduced to a plane. It is also in Kohl's MS. in the Amer. Antiq. Society's library.

45. A. D. 1530. **Diego Homem.**

The original, among Lord Lumley's (d. 1609) maps in the British Museum, is noteworthy from the west coast of the two Americas having no defined or supposable limit, the green color of the Continent simply fading away. The eastern coast is of the Ribero type. The only names are "Timististan" (Mexico) and "Mundus Novus" (South America).

46. A. D. 1531. **The world by Finæus.**

The original is an engraved map in the Paris (1532) edition of the *Novus Orbis*, usually ascribed to Grynaeus. This map, of which the title is "Nova et integra universi orbis descriptio," is of a double cordiform projection, divided at the equator. The author of it is Orontius Finæus, or Oronce Fine, who dates it July, 1531, in a dedication to Christian Wechel, who bore the expense of its production. Ortelius in his list mentions this map as "Orbis terrarum typus, sub forma cordis humani." This edition of the *Novus Orbis* has sometimes another map; but this is the proper one. Cf. *Bib. Am. Vet.*, nos.

172, 173; and references in Winsor's *Bibliog. of Ptolemy*, sub anno 1540. The same map is in the 1540 edition of Pomponius Mela. Cf. *Bib. Am. Vet. Additions*, no. 127.

— A. D. 1532.

The map by Münster in the Basle edition of the *Novus Orbis*, of which there are facsimiles in the *Narr. and Crit. Hist. of America*, iii., and in Stevens's *Notes*, pl. IV. no. 4. It was repeated in the 1537 and 1555 editions of the *Novus Orbis*. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

A mappemodé by Bartolomeo Olives, with other maps of Central and South America, contained in an Atlas in the Royal University Library at Pisa. Cf. *Studi biog. e bibliog. della Soc. geog. italiana*, ii. no. 414.

47. A. D. 1534. America.

An engraved map published in Venice Dec. 1534, with the title, *La Carta universale della terra ferma ed isole delle Indie occidentali*. It purports to be compiled from two marine charts, made in Seville by pilots of the Emperor. Kohl thinks the author drew from the charts of the Spanish hydrographical bureau as Ribero did, whose map it resembles. Kohl errs in saying that the Burmudas appear here for the first time on an engraved map, since they appeared in 1511 in the engraved Peter Martyr map. The coast from Paria to New England is called "Indie occidentali;" South America is called "Mondo Nuovo—Terra Ferma." A large part of the western coast of South America (Chili and Peru) is left blank. The western coast of North America above Central America is omitted. The only known copy of this map is in the Lenox Library; it is reproduced in Stevens's *Notes*. Cf. full references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

48. A. D. 1534. The world by Bordone.

An engraved map on an elliptical projection in the *Isolario de Benedetto Bordone*, published in 1534. What seems to stand for the Gulf of Mexico is bounded on the north by a projecting "terra del laboratore," and on the south by a larger peninsula, called "Mondo Novo." (See sub no. 40.)

— A. D. 1534.

A map of the Ribero type in the Ducal library at Wolfenbüttel. Cf. HARRISSE'S *Cabots*, p. 185.

Santarem, *Bull. de la Soc. de Géog.*, vii. 322, refers to a globe at Weimar of this date.

49. A. D. 1534. The world.

An engraved map of an elliptical projection, inscribed: "Tiguri Anno M.D.XXXIII." It resembles the map in the Basle, 1532, edition of the *Novus Orbis*, but omits the islands on the eastern coast of America. Kohl does not trace its origin.

50. A. D. 1535. The world in the Ptolemy of 1535.

It gives of America only the northeast corner of South America and the eastern coast of what is apparently Newfoundland or Labrador. It is called "Tabula Nova Orbis," and was repeated in the Lyons edition of 1541. "Gronlanda" is made a long narrow promontory stretching southwest from the northwestern extremity of Europe.

51. A. D. 1536 (?). The world.

The original is an undated MS. in the Bodleian Library, of an elliptical projection. The dotted line given for the Chili coast, and the indications of Pizarro's conquest of Southern Peru, induce Kohl to place it between 1534 and 1536. It resembles the delineation in the American parts of the maps of Baptista Agnese of about this date.

A similar outline is given in the Turin Atlas (1530-1540), of which Wuttke gives an outline in the *Jahresbericht des Vereins für Erdkunde in Dresden*, 1870. Still another of a like contour is given in colored facsimile by Peschel in the *Jahresbericht des Vereins für Erdkunde in Leipzig*, 1871.

52. A. D. 1536. The world by Baptista Agnese.

The original is a manuscript map of an elliptical projection preserved in the British Museum, marked: "Bapt. Agnese Venetiis, 1536." The western and northern coasts of North America are vaguely drawn by a dotted line, and so is the coast of Chili. A course from Spain to the Isthmus, and so down the South American coast to Peru, is represented by a pricked line, as is also the route of Magellan's ship round the world. The La Plata river is developed with branches.

Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540, for references. A sketch of the map is given in the *Narr. and Crit. Hist. of America*, iv. p. 40.

— A. D. 1536.

An anonymous atlas of eleven charts, showing in one North America and the Moluccas, and in another South America and Africa, has been recently discovered in Padua; and is now in Venice. Cf. *Studi biog. e bibliog. della Soc. geog. ital.* ii. p. 120.

An anonymous atlas of twelve charts in the possession of Nicolo Barazzi in Venice, of which no. 3 is the Pacific and the coast of America; no. 4 is America; and no. 12 the world. It formerly belonged to the Erizzo family in Venice. Cf. *Studi*, etc., ii. p. 128.

— A. D. 1538.

A heart-shaped map of Mercator, of which the only copy known belongs to Mr. J. Carson Brevoort of Brooklyn. Cf. *Bull. of the Amer. Geog. Soc.* 1878, p. 196.

— A. D. 1539.

This date is assigned to an atlas commonly cited as the *Atlas de Philippe II., dédié à Charles Quint*, but which is more correctly defined in the title given to a photographic reproduction, *Portulano de Charles Quint donné à Philippe II. accompagné d'une notice par MM. F. Spitzer et Ch. Wiener*, Paris, 1875. Major is inclined to believe it the work of Baptista Agnese. A copy of this facsimile is in Harvard College Library. Malte-Brun describes the map in the *Bull. de la Soc. Géog. de Paris*, 1876, p. 625. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

Plate IV. shows the two Americas, and is of the Agnese type. Plate XIII. shows the eastern coast of North America of the Ribero type, and the whole of South America, with the coast of Chili, is left out. Plate XIV. shows North America, with the west coast drawn up to California, but parts of the east and west coast of South America are left out.

— A. D. 1540.

The "typus universalis" of Münster in the Ptolemy of this date. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540.

— A. D. 1540. **The new world by Münster.**

See no. 58. The same plate was often used during this century, particularly in Münster's publications; with the names of the countries inserted in the block in different type, sometimes in German, sometimes in Latin. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1540. There is a reduced facsimile of this map in the *Narr. and Crit. Hist. of America*, vol. iv. p. 41.

— A. D. 1540.

The Antwerp edition of Apian's *Cosmographia* has a map reproduced in Lelewel's *Moyen âge*, pl. 46. Cf. the map in the 1544 (French), 1545 (Latin), and 1548 (Spanish) editions.

53, 54. A. D. 1541. The new world in the Ptolemy of 1541.

Similar to the maps in the editions of 1511 and 1513; but on a large scale, except that "Parias," a name given by Columbus to the northern coast of South America, is here transferred to what is shown of North America.

No. 54 is a less perfect copy.

— A. D. 1541.

Engraved gores of a mappemodé by Mercator. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548, with references.

55. A. D. 1542. America by Rotz.

The original is in a MS. in the British Museum, "John Rotz his book of Hydrography." It shows the eastern parts of North America and all of South America (making an island of the eastern parts of Brazil) on a hemispherical projection. It shows a number of fabulous islands in the North Atlantic. An outward curve in the coast of Chili was copied in many later maps. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548, for references.

— A. D. 1542.

The Ulpius globe. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub annis 1540 and 1548, for reference; and also *Ibid.* for the "Mappemonde Harleynne," as Harrisse calls it, in the British Museum.

The map in Hunter's *Rudimenta Cosmographica*—much behind the time—and repeated in 1546, and in other editions till 1561, when a better shape for America was adopted. A fac-simile is given of the 1542 map in Stevens's *Notes*. It resembles the map given in Jomard, pl. xviii., as "sur une Cassette de la Collection Trivulci dite Cassettina all' Agemina."

56. A. D. 1543. America by Baptista Agnese.

The original is a manuscript map in the Collection of the Duke of Gotha, signed, "Baptista Agnese fecit Venetiis 1543 die 18 Februarii." It shows the eastern coast from Labrador to the Straits of Magellan; and the western coast, stopping just north of the same Straits, is renewed at Southern Peru, and extends to the upper verge of Central America.

It notes the discoveries of Ayllon on the Carolina coast. It is partly reproduced in Kohl's *Discovery of Maine*, 316. The *Studi biog. e bibliog. della soc. geog. ital.*, ii. p. 134, notes an atlas hydrographique (showing the world and America) also in the Ducal library at Gotha. There are various other Agnese maps of about this date. One, dated June 25, in the Huth library, is referred to in Harrisse's *Cabots*, p. 189; another in the Biblioteca Laurenziana at Florence is dated Feb. 12. In this chart no. 3 shows the Pacific with America and the Moluccas; no. 4, the Atlantic with the American coast; no. 12 is a general map, indicating the route of Magellan. Cf. *Studi*, etc., ii. p. 131. One of 1544 is in the Royal library at Dresden; it is signed at Venice. Cf. *Studi*, etc., ii. p. 132. Another of 1545 is in the Biblioteca Marciana at Venice. Cf. *Studi*, etc., ii. p. 132. Cf. references in Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548. The *Studi*, etc., ii. p. 129, notes an Agnese atlas (1536-50) in the Royal library at Munich; and (p. 159) another in the National library at Florence as of the sixteenth century, containing fifteen nautical maps, of which no. 2 shows the coasts of the Pacific, and no. 3 the east coast of America.

— A. D. 1544.

Map by Ruscelli in the British Museum, drawn in part in Kohl's *Discovery of Maine*, p. 296, and in H. H. Bancroft's *Cent. America*, i. 148. Cf. Lelewel, p. 170; and Peschel's *Erdkunde*, p. 371.

The well-known map usually ascribed to Sebastian Cabot. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548 for references; and *Studi biog. e bibliog.*, etc., ii. p. 213.

The map of Münster's *Cosmographia* of this date is reproduced in Santarem and Lelewel, pl. 46.

57. A. D. 1545. The world in the 1545 edition of Ptolemy.

The map is by Sebastian Münster. The same map was re-engraved in the Ptolemy of 1552, and in Münster's *Cosmographia* of 1534.

58. A. D. 1545. The new world by Münster.

This is the well-known map, *Novus Orbis*, in the Basle, 1545, edition of Ptolemy. The same plate first appeared in the edition of 1540. (See that date.)

— A. D. 1546.

The Pierre Desceliers map, usually called the "Henri II. map." Cf. Winsor's *Bibliog. of Ptolemy's Geog.* for references; also, Paul Gafareil's *Brésil Français*, Paris, 1878, p. 6; Guibert, *Ville de Dieppe*, vol. i. p. 348; Malte-Brun's "Un géographe français du XVI^e siècle" in *Bull. de la Soc. de Géog. de Paris*, Sept. 1876.

The map of this date in *Epitome* of Vadianus, published in 1548, is given by Santarem.

The portolano of Johann Freire. Cf. Harrisse's *Cabots*, p. 220.

— A. D. 1548.

Maps no. 59 and no. 60 in the Italian ed. of Ptolemy. Both represent North America as a part of Asia, but differently. Cf. Winsor's *Bibliog. of Ptolemy's Geog.* No. 60, called "Carta Marina," was repeated in the Ptolemy of 1561. It is sketched in the *Narr. and Crit. Hist. of America*, iv. p. 43.

— A. D. 1549.

A Maggiolo atlas in the Biblioteca Comunale in Treviso.

59. A. D. 1549. America by Medina.

The original is an engraved map in Pedro de Medina's *Libro de grandezas y cosas memorables de España*, Seville, 1549. It shows the eastern coast of North America from Labrador south, and both coasts of Central and South America. Kohl suggests that the small size of this and the other early maps of America issued in Spain, indicate the unwillingness of the authorities to allow detailed charts on a large scale to circulate. It shows the famous line of demarcation, which is used to note the degrees of latitude. Cf. *Bib. Am. Vet.*, p. 517; and *Additions*, 165. It is the map of the *Arte de navegar* of 1545, eked out for the lower parts of South America by an added block. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548.

60. A. D. 154-? America by Homem.

This is the western part of an elliptical projection of the world, and belongs to an undated manuscript in the British Museum. The west coast is shown from California to Peru; the east coast entire, and both coasts of Patagonia. Tierra del Fuego is the northern part of a land of unknown extent. The La Plata is developed; but the Amazon is not. "Terra Nova" is a peninsula stretching northwesterly from Norway, with "Yslanda" lying between it and "Bacalaos." The map resembles those of Homem's contemporary, Baptista Agnese.

61. A. D. c. 1550. Nancy globe.

This shows the western hemisphere of the globe preserved at Nancy, in France.

Kohl refers to Blaeu's paper on this globe in the *Mémoires de la Société royale des Sciences de Nancy*, 1835, pp. ix. and 97.

It makes North America part of Asia; and shows a large antarctic continent. Cf. Winsor's *Bibliog. of Ptolemy's Geog.*, sub anno 1548, for notices of engravings of it.

— xvi. cent.

The *Studi biog. e bibliog. della soc. geog. ital.*, vol. ii. enumerates various maps of this century, without assigning them particular years; and also a variety of MS. sea-manuals likewise of this century.

An anonymous Carta nautica preserved in the Ducal library at Wolfenbüttel, which shows North America in part, as far west as Yucatan and east to Cape St. Augustine (*Studi*, ii. p. 106). Cf. Harisse, *Cabots*, p. 185; and Winsor's *Bibliog. of Ptolemy*, sub 1540.

An atlas in the same library, with a map of the new world, which is placed in the last quarter of the century (*Studi*, ii. p. 155).

A Spanish mappemonde of the early part of the century, preserved in the Archivio del Collegio di Propaganda, at Rome (*Studi*, ii. no. 446).

A Portuguese atlas in the Royal archives at Florence, showing no. 17, Acadia; 18, Cape Cod to the Gulf of Mexico; 19, Gulf of Mexico; 20, Antilles; 21-24, South American coasts (*Studi*, ii. no. 451).

An atlas of the first half of the century, in the Biblioteca Angelica at Rome, which has several maps of America (*Studi*, ii. p. 136).

An atlas in the Archivio del Collegio di Propaganda, with a map showing the east coast of Amer-

ica (*Studi*, ii. p. 160; *Bull. de la soc. de géog.*, 1847, vii. 308). Also in the same place a Carta nautica, showing a large part of America (*Studi*, ii. p. 160; *Bull.*, etc., vii. 313).

An anonymous atlas in the Biblioteca Comunale at Fermo (*Studi*, ii. p. 162).

An anonymous atlas in the Museo Civico at Venice, giving the northeast parts of America (*Studi*, ii. p. 163), and another (p. 165) showing the western hemisphere.

A globe in the Biblioteca Marciana at Venice (*Studi*, ii. p. 164).

An anonymous atlas in the Biblioteca Ambrosiana at Milan, showing the east and west coasts of America (*Studi*, ii. p. 168).

An anonymous Carta nautica, preserved at Milan, showing the American coasts of the Atlantic (*Studi*, ii. p. 170).

An atlas of Antonio Millo, preserved in the Biblioteca Vittorio Emanuele at Rome, showing the two Americas (*Studi*, ii. p. 174).

An anonymous Spanish planisphere of the beginning of the century, preserved in the Royal library at Turin, which shows the coasts of Mexico and the northern parts of South America (*Studi*, ii. no. 406).

An atlas of Francesco Gisalfo of Genoa with a mappemonde, preserved in the Biblioteca Riccardiana at Florence (*Studi*, ii. 169); an anonymous atlas in the same library, which shows the east and west coasts of America (*Studi*, ii. p. 172); and a Portuguese atlas, showing: no. 19, Canada; 20, Florida; 21, Peru; 22, Venezuela; 23-26, South America (*Studi*, ii. no. 452). Several of the maps in the Riccardi palace have been shown in the *Jahrbuch des Vereins für Erdkunde in Dresden*, 1870. Cf. Winsor, *Bibliog. of Ptolemy*, sub 1561.

A Portuguese planisphere of the end of the century, showing the western hemisphere. It is preserved in the Biblioteca Vallicelliana at Rome. (*Studi*, ii. no. 450).

Kohl refers to a "weltkarte" of the middle of the sixteenth century, which is given in the *Mémoires de la société de Nancy*, 1832.

— A. D. 1550-53.

Two portolanos of Pierre Desceliers, one in the British Museum, and the other at Vienna. Cf. *Brit. Mus. Cat. of MSS.*, no. 24065; Harisse, *Cabots*, 230; *Bull. de la Soc. de Géog. de Paris*, Sept. 1852 and Sept. 1856.

A MS. parchment chart (1550) of Diego Gutierrez in the Dépôt des cartes de la Marine at Paris.

62. A. D. 1551. The world by Apian.

The original is an engraved "charta cosmographica" in the *Cosmographia* of Petrus Apianus, published at Paris in 1551, with additions by Gemma Frisius. The map is not in the Antwerp edition of 1541, and differs from the one there given. North America is a narrow continental land, north of which Asia and Europe unite. See notes on the bibliography of Apian in *Nar. and Crit. Hist. of America*, vol. ii.

63. A. D. 155-? The world by Martines (?).

The original is a planisphere from a MS. atlas, whose names are mostly Italian with some Spanish ones, which formerly belonged to the Duke de Cassano Serra, and is now in the British Museum. Kohl finds its American portion to correspond closely with a map of Joannes Martines of 1578 in the British Museum, and supposes this to be by

him also. The later map has meridians of longitude, which this has not. South America is called "Peru" in this map, but "America" in the later one. The general outline of the new world resembles that of Porccachi's maps. The huge antarctic continent so common in maps of this time, is shown.

— A. D. 1552.

Münster's maps in the Basle Ptolemy of this year, repeated from the editions of 1540-42-45.

— A. D. C. 1553.

A parchment planisphere in the Dépôt des Cartes de la Marine at Paris. Harriſſe, *Cabots*, 238.

64. A. D. 1554. *America by Bollero.*

The original is a small woodcut, — called "Brevis exactaque totius novi orbis ejusque insularum descriptio recens — Joan Bollero edita," — which appears in various publications of about this time, including Gomara's *Historia general de las Indias*, to which Kohl credits it. The coasts north of Mexico and Labrador are wanting. Cf. Uricoechea, *Mapoteca Colombiana*, no. 12, and Winsor's *Bibliog. of Ptolemy*, sub 1561.

— A. D. 1554.

An atlas by Baptista Agnese in the Biblioteca Marciana at Venice (*Studi biog. e bibliog.*, ii. p. 139). This was issued in photographic facsimile at Venice in 1881. Cf. Winsor's *Bibliog. of Ptolemy*, sub 1561, for other maps of Agnese of about this time.

A map of André Thevet, cited by D'Avezac, *Sur la projection des Cartes*, Paris, 1863, p. 73.

A map of the world by Framezini, engraved by Julius de Musis.

65. A. D. 1555. *The world.*

The world on an elliptical projection, copied from the map in the Basle, 1555, edition of Grynaeus, in the Grenville copy in the British Museum. It resembles map no. 49 (*ante*); and had earlier appeared in the 1537 edition of the *Novus Orbis*.

— A. D. 1555.

A portolano by Le Testu in the French ministry of war. Cf. Winsor's *Bibliog. of Ptolemy*, sub 1561.

66. A. D. 1556. *America, in Ramusio*, vol. iii.

The original was made for Ramusio by Gastaldi (about 1550) from material gathered by Oviedo, and sent to Ramusio by the Florentine Hieronimo Fracastoro. It is called: "Universale della parte del mondo nuovamente ritrovata." Ramusio dates the introduction to this volume in 1553, which may perhaps indicate the date of the map; and the material upon which it was founded would seem to include results of Cabrillo's explorations on the California coast in 1542-43.

The maps of the new world, both in this edition, and in that of 1565, are: 1, New world; 2, Temistitan (Mexico); 3, Cusco in Peru; 4, New France and Newfoundland; 5, east part of Brazil; 6, part of America; 7, Taprobano; 8, Hochelaga, — a bird's-eye view of an Indian camp.

— A. D. 1556.

Vopellio's cordiform mappemonde in Girava's *Cosmographia*, Milan. There is a facsimile of it

published by Henry Stevens. It is sometimes found in the 1570 edition of Girava, which is the 1556 edition with a new title.

— A. D. 1558-80.

Atlas of Bertelli e Forlani, published at Rome, containing maps of North and South America. Cf. Sabin's *Dictionary*, ii. 5000. See no. 69. What is called Lafreri's Roman atlas, *Tavole moderne di Geografia*, is sometimes given as published at Rome and Venice, 1554-72. Forlani's map, *Universale Descrittione*, is cited as of 1565, 1570, etc. Cf. Thomassy, *Les Papes géographes*, p. 118.

67. A. D. 1558. *America by Homem.*

The original is a MS. map by Diego Homem in the British Museum, a part of a large general atlas by this Portuguese chart-maker, who inscribes it: "Diegus Homem cosmographus fecit hoc opus anno salutis, 1558." The words "mundus novus" are in a scroll on South America; but "America" in small letters is on the region north of the Amazon, which runs a general easterly course. The coast of Chili and the western coast of Patagonia are indicated by a dotted line. The California coast is carried a short distance above the peninsula of California. The Bay of Fundy runs nearly north. The St. Lawrence is broadened into a sea of uncertain limits. Cf. *Brit. Mus. Cat. of MS. maps*, 1844, vol. i. p. 27; Harriſſe, *Cabots*, p. 243; and further on atlases of this time by Homem in Winsor's *Bibliog. of Ptolemy*, sub 1561.

— A. D. 1559.

Harriſſe, *Cabots*, p. 244, cites a mappemonde of Andreas Homo, preserved in the Ministry of Foreign Affairs at Paris.

68. A. D. 1560. *America by Niccollo del Delfinato.*

The original is an engraved map belonging to the *Navigazioni del mondo novo*, published in Venice in 1560, and is inscribed: "Opera di M. Nicolle del Delfinato, Cosmografo del Christianissimo Re." Kohl points out its resemblance to a map edited by Forlani and made by Gastaldi in 1560, though it shows less, but on a large scale. It shows from Labrador to 15° below the equator on the east coast; and omits all north of Mexico on the west coast. Both this and Forlani's were published by the same publisher in Venice.

69. A. D. 1560. *The new world by Gastaldi and Forlani.*

An engraved map (in the British Museum) inscribed: "Paulus de Furlanis Veronensis opus hoc exmi Cosmographi Dni Jacobi Gastaldi, Pedemontani instauravit. . . Venetis, Joann Francisci Camotii aereis formis. . . Anno MDLX."

North America is connected with Asia; the North Pacific extending only to the 40° N. Lat. The Amazon runs north. The La Plata is not developed. A polar sea is south of Labrador.

The map was again issued unchanged, by Forlani in 1576.

— A. D. 1560.

A small globe in the mathematical salon at Dresden. Cf. Wieser's *Magalhães-strasse*, p. 70, where one by Johannes Prætorius is referred to, as being in the same place, and assigned to 1568.

— A. D. 1561.

A map by Girolamo Ruscelli in the edition of Ptolemy, published at Venice. The coasts of California and Chili are left uncertain. The same book has several sectional maps of America. These maps were repeated in the Ptolemies of 1562, 1564, and 1574.

An atlas of Bartolomeo Olives di Majorca in the Royal archives at Naples, nos. 2 and 3, showing parts of North America and the Antilles. Cf. *Studi biog. e bibliog.*, ii. no. 428.

An improved map in Honter's *De Cosmographie rudimentis*, published at Basle.

— A. D. 1662.

A map of the younger Diego Gutierrez. Har-
risse, *Cabots*, p. 152.

— A. D. 1562-66.

Carta nautica of Paolo Forlani in the National library at Paris. It is figured in Santarem's *Atlas*. Cf. *Bull. de la soc. de géog. de Paris*, 1839; *Studi biog. e bibliog.*, ii. p. 142.

The catalogue of the King's maps in the British Museum puts a map of Forlani under 1562. Cf. Thomassy, *Les Papes géographes*, 118.

— A. D. 1563.

Atlas of Giorgio Sideri detto Callapoda di Candia, containing ten maps, one showing the two hemispheres, and another, America. It is in the Biblioteca Marciana at Venice. Cf. *Studi*, etc., ii. no. 433.

— A. D. 1564.

An atlas of Baptista Agnese, dated May 25, 1564, referred to in *Brit. Mus. Cat. of MSS.*, no. 25442; and another in the Biblioteca Marciana. Cf. Har-
risse, *Cabots*, 189. There are various undated atlases of Agnese, mentioned in Winsor's *Bibliog. of Ptolemy*, sub 1597.

— A. D. 1566.

An engraved map of Zaltiere or Zalterius of Bologna, measuring $15\frac{1}{2} \times 10\frac{1}{2}$ inches, called the earliest map to show the straits of Anian. Cf. *Nar. and Crit. Hist. of America*, iv. p. 93.

A brass globe in the town library at Nuremberg by Johannes Praetorius. Cf. Ghillany's *Behaim*, p. 60.

A MS. map by Des Liens of Dieppe in the National library at Paris. Cf. *Nar. and Crit. Hist. of America*, iv. 78.

An engraved map of Johannes Paulus Cimperlinus of Verona, showing North America as a part of Asia. Mr. Brevoort has a copy.

— A. D. 1567.

An atlas of this date is quoted by Santarem as being in the Ternaux bibliothèque. Cf. *Bull. de la Soc. de Géog. de Paris*, 1837 (viii.), p. 175. It shows the new world.

70. A. D. 1568. America by Homem.

The original is a MS. map in the Royal library at Dresden, purporting to be by "Diegus cosmographus," a Portuguese living in Venice in 1568. Kohl identifies him with Diego Homem, and traces the resemblance of this map to Homem's map of

1558 (no. 67 ante). This map has a northern coast of North America drawn in, which that of 1558 did not have.

The La Plata river is made something like an interior sea, with islands, and has a small channel connecting with the ocean on the northern coast of Brazil.

71. A. D. —. The world.

A map in a double-cordiform projection, following an engraved original in the British Museum. Its only inscription is "Ant. Sal. exc. Romæ." A legend on it speaks of America being better drawn than in other contemporary maps.

Northern Asia extends in a peninsular shape round the north pole, with "Groelandia" as a subordinate peninsula. The "Baccalarum regio" has a group of islands lying east of it, called "Insule Corterealis." A "Fretum arcticum" separates this from the polar land. The Amazon discovered in 1542 is left out. The Chilian coast is "Littora incognita."

It is sometimes assigned to about the year 1540.

— A. D. 1569.

The great mappemonde of Gerard Mercator. Cf. references in *Nar. and Crit. Hist. of America*, iv. 369; and in Winsor's *Bibliog. of Ptolemy*, sub 1597.

72. A. D. 1570. America by Ortelius.

Engraved map in the first edition of the *Theatrum Orbis Terrarum*, of Abraham Ortelius, the most learned geographer of his time. He gives in his text accompanying the map about twenty Spanish, Italian, German and French authorities for his sources, — most of which he might have found in Ramusio, though his map is far in advance of that presented by Ramusio. This delineation of Ortelius with that of Mercator, may be said to have established a type for the contour of the Americas, which long prevailed. For various subsequent issues see *Nar. and Crit. Hist. of America*, iii. 34; iv. 369.

Reference may be made to a globe of this date by Francisco Basso, a Milanese; and a MS. map by Jehan Cossin of Dieppe, in the National library at Paris. Har-
risse, *Cabots*, 217.

— A. D. 1572.

The mappemonde in Porcacchi's *L'Isole piu famose del mondo*, published at Venice, repeated in later editions, 1576, 1590, etc. One of them is given in facsimile in Stevens's *Notes*, etc.

— A. D. 1573.

Lelewel, *Moyen Age*, vol. i. pl. 7, cites a "Orbis terrarum a hydrographo Hispano in plano delineatio."

— A. D. 1574.

Two maps of the western hemisphere (one dated 1574) in the *Theatri Orbis Terrarum Euchiridion* of Philippus Galeus, "per Hugonem Favolium illustratum," published at Antwerp in 1585.

73. A. D. 1575. America by Thevet.

An engraved map, according to Kohl, in Thevet's *La France Antarctique* (Brazil about Rio Janeiro), published in 1575 and 1581. The map is called "Le nouveau monde découvert et illustré de nostre

Temps," and though Thevet professes that he based it on new material, it is largely a copy of Ortelius, with a more profuse ramification, to the rivers, of which Thevet probably had no further information than Ortelius had; but he gives some French names, which Ortelius does not give. He goes a little farther north than Ortelius. There was also a map in Thevet's *Cosmographia*.

Cf. a map in Belleforest's *Cosmographia*.

74. A. D. 1576. The world by Sir Humphrey Gilbert.

An engraved cordiform map in Gilbert's *Discourse of a Discovery for a new passage to Cataia*, London, 1576, where the chart is called "A general map made onelye for the particular declaration of this discovery." The map is similar in aspect to Apian's (no. 62), but the northern waters of America are different, in order to illustrate Gilbert's views, according more with Homem's in making open water west of Labrador and neighboring parts, which are made islands. There is a facsimile in the *Nar. and Crit. Hist. of America*, iii. ch. 6.

Wieser in his *Magalhães-Strasse*, p. 72, refers to an erd-globus of Apian preserved in the Hof bibliothek at Munich.

75. A. D. 1578. The world by Martines.

A MS. map in the British Museum, marked: "Joan. Martines en Messina, afli, 1578." It is of a double hemispherical projection, and in outline America is of the Ortelius type, though very different in the region of the St. Lawrence.

The British Museum *Catalogue of MS. maps*, i. p. 29, shows the Martines atlas to contain various American maps: 1, the world; 2, the two hemispheres; 3, the world in gores; 10, west coast of America; 11, coast of Mexico; 12, 13, South America; 14, Gulf of Mexico; 15, part of east coast of North America.

76. A. D. 1578.

A duplicate of no. 75, — less perfect.

77. A. D. 1578. The world by Martines.

A MS. map, smaller than nos. 75 and 76, likewise in the British Museum, and differing in parts from that map, particularly in the St. Lawrence region; and in making the Amazon a long river, rising in Patagonia, while in the other map, it has a short course and is all north of the La Plata. The mountain ranges in both Americas stretch east and west.

The British Museum MSS., no. 22018, is a portolano of Martines, dated 1579. The *Brit. Mus. Cat. of MS. maps*, 1844, i. 31, gives a map of the world by Martines (*sub anno* 1582). The South American part is facsimiled in colors in Bibliophile Jacob's *Moyen Age*.

78. A. D. 1578. The world by Frobisher.

An engraved sketch in Best's *True Discourse*, regarding Frobisher's voyage, showing that commander's view of a passage, called after himself, connecting the Atlantic with the Straits of Anian. The coasts discovered since Ptolemy's time are drawn in pricked lines. Cf. Collinson's *Frobisher*, and *Nar. and Crit. Hist. of America*, iii. ch. 3.

There is a mappemonde in the *Speculum Orbis terrarum* of Cellarius.

— A. D. 1582.

An elliptical mappemonde in Popellinière's *Trois mondes*. It is of the Ortelius and Mercator type.

A mappemonde by A. Millo is numbered 27470 in the Brit. Mus. MSS.

— A. D. 1583.

Map in the edition of this year of Reisch's *Margaritha philosophica*, published at Basle. Cf. *Uricoechea, Map. Colomb.*, no. 15.

79. A. D. 1587. The world by Myritius.

An engraved map in the *Opusculum geographicum rarum per Joannem Myritium Melitensem. Ingolstadt: i anno MDCCCC.*, the map being called "Universalis orbis descriptio." Myritius was a knight of Malta, and dates his preface in 1587, when Kohl conjectures his map (of which he gives no account) may have been made.

The map makes North America a part of Asia, resembling in this respect that of Forlani of 1560.

Reference may be made under this date to the map in Hakluyt's edition of Peter Martyr, published in Paris. There is a facsimile in Stevens's *Notes*, &c.; and a sketch in the *Nar. and Crit. Hist. of America*, iii. p. 42.

The map in the Ortelius of this year was repeated in the edition of 1598. *Uricoechea*, no. 16.

80. A. D. 1589. The world by Hakluyt.

An engraved map in Hakluyt's *Principall Navigations*, London, 1589. Kohl points out how South America is improved over Ortelius's delineation; but he remarks as singular, that Drake and New Albion, Raleigh and Virginia, with Frobisher and his straits should be ignored in North America by an English authority. There is also no trace of Drake in the regions about Magellan's straits, — the Spanish authorities seemingly furnishing all the information Hakluyt had. He calls North America, "America sive India nova."

81. A. D. 1589.

A duplicate of no. 80, — less perfect.

82. A. D. 1589. The world by Hondius.

An engraved map, on which a statement that it is intended to show the tracks of Drake and Cavendish, is signed by Jodocus Hondius, 1589. The circumnavigations of these two English explorers are marked by pricked lines; and in one corner a small sketch of Drake's harbor on the California coast, "Portus novæ Albionis," is made. Tierra del Fuego is made a group of islands for the first time, while the great antarctic continent is contracted on this side nearer the southern pole, though it is made to extend as far as the tropic of Capricorn on the other side of the globe. In an inscription referring to the Tierra del Fuego group Hondius remarks that Cavendish and the Spaniards do not accept Drake's views, making a continent the southern boundary of the Straits of Magellan; and on later maps Hondius seems to have accepted these other views. Cf. *Uricoechea*, no. 25.

83. A. D. 1589. America by Cornelius Judæus.

The western portion of a map called: "Totius orbis cogniti universalis descriptio. Corn. Judæus.

Antuerpia. Pridie Cal. Nov. A. 1589, fecit." It follows the Ortelius and Mercator type; and it particularly resembles the Mercator map of 1587. It has the usual antarctic continent.

Cf. a map of Judaeus in his *Speculum orbis terrae*, 1593.

— A. D. 1592.

The Molineaux globe preserved in the Middle Temple, London.

— A. D. 1593.

Map resembling the Ortelius type in the *Historiarum Indicarum libri xvi.* of Maffei. Cf. *Uricoechea*, no. 19.

84. A. D. 1594. **America by Peter Plancius.**

An engraved map entitled: "Orbis terrarum typus de integro multis in locis emendatore auctore Petro Plancio, 1594." Kohl points out its resemblance to Hakluyt's map of 1589. Plancius gives the four large islands about the north pole, which Purchas says were invented by Mercator. There are indications of Frobisher's Voyage; but none of Drake's. Kohl thinks that Plancius had Spanish and Portuguese originals, which are unknown to us, and which he used to advantage in drawing the interior parts of South America.

The map is found in the Dutch edition of Linschoten, 1596. Blundeville, in his *Exercises*, speaks of a Plancius map "lately put forth in the yeere of our lord, 1592." The same map re-engraved, but not credited to Plancius is in the Latin Linschoten, 1599. The English Linschoten of 1598 has the map of the Hakluyt of 1589, re-engraved from Ortelius.

Under this year also, we must put De Bry's maps of the world, of this and later dates; contained in the *Great Voyages*, parts iv. and xii.

Cf. also a map of the world by Quadus.

Santarem cites as in the Propaganda at Rome a portolano of Jean Oliva, the sixth of whose maps is a planisphere showing the Straits of Magellan. Cf. *Bull. de la Soc. de Géog.* (1847), vii. 308, where is also as no. xii., another portolano of the sixteenth century, without name or date, but showing on one of its maps the eastern coast of America; and again, p. 313, still another of the same century.

— A. D. 1595-98.

The map in Giovanni Botero's *Relationi universali*, Venice, 1595, and later. Cf. *O'Callaghan Catalogue*, nos. 339, 340; Sabin's *Dictionary*, ii. 6799; Rich (1832), no. 96. There was a later edition in 1603; *Relaciones universales del Mundo*, published at Valladolid, which contains both a map of the world, and one of the two Americas.

— A. D. 1595.

A Dutch map of the world by Loew.

— A. D. 1596.

The maps in the edition of Ptolemy, printed at Venice, and repeated in editions under date of 1597, 1608 and 1617.

85. A. D. 1597. **The world by Porro.**

A small engraved map, marked "Universi orbis descriptio a Hieronymo Porro Pativino incisa." It

is of the Mercator type; and having been first printed separately, was later published in an edition of Ptolemy at Cologne in 1597, and in another at Venice in 1598. America is called "Ameria, sive India nova." There is the usual Southern polar continent. This and other maps showing America are numbered 2, 29, 34, and 35 in the Ptolemy of 1597.

Under this date also, is a map of the Ortelius type in Wytfliet's continuation of Ptolemy. There is a facsimile of it in the *Nar. and Crit. Hist. of America*, vol. ii.

The globe of Hondius, embodying discoveries in America.

The map in Magninus's *Geographia*.

86. A. D. 1598. **The world by Molineaux.**

An engraved map, belonging, as Kohl asserts, to the 1598 edition of Hakluyt, but rarely found in it. The facsimile of it issued by the Hakluyt society in 1880, is dated 1600. Kohl refers to Hakluyt's promise in the 1589 edition to give a map by Molineaux, and traces the correspondences in this map to the globe in the Middle Temple, assigned to Molineaux. The map is an attempt to carry out some geographical problems on theoretical grounds, as compare his treatment of the St. Lawrence and the Lakes. The California coast is not carried north of Drake's New Albion. He omits the antarctic continent and Mercator's arctic islands, and the northern coasts of America and Asia. He ignores the usual fabulous Atlantic islands, except Frisland, which he puts southwest of Iceland. He makes an insular group of Tierra del Fuego, and removes the protuberant part of the contour of the Chilian coast, as represented by Mercator and Ortelius; though he preserves a smaller projection nearer the Straits of Magellan. In this he assigns the explorations of Drake in 1577 and of Sarmiento and Cavendish in 1587, as authorities. Contrary to most maps of the time he makes the Pacific in lat. 38°, 1200 leagues wide, and the distance from Cape St. Lucas to Cape Mendocino 600 leagues.

A map of the Ortelius type is in Münster's *Cosmographia*. The Italian Ortelius of this year, *Il theatro del Mondo*, published at Brescia, has three maps showing America, pp. 1, 3 and 11.

— A. D. 1599.

A portolano of G. Oliva. *Brit. Mus. MSS.*, no. 24943.

87. A. D. 1600 (?) **Spanish map of America.**

An engraved map in the British Museum, published about 1600, and showing the Ortelius and Mercator type, but more closely resembling that of Ortelius (1570). It has the great southern continent. Kohl says that the British Museum Catalogue says it was published in Madrid; but he has doubts, and thinks if so, that the editing was not done by a native Spaniard; and he is inclined to place it several years earlier than 1600.

A map, based on Wytfliet, in the *America sive novus orbis* of Metellus, was published at Cologne, in this year. *Uricoechea*, no. 24.

88. A. D. 1601. **America by Herrera.**

An engraved map in the 1601 edition of Herrera's *Descripción de las Indias*. It shows the line of demarcation, on both sides of the globe, in accordance with Spanish views. A distinguishing feature is the

great width of the northern Pacific. It was reproduced in the edition of 1622; and in the Torquemada of 1723 with some changes.

— A. D. 1602.

Gabriel Talton's chart showing the east coast of the two Americas, preserved in the National Library at Florence. Cf. *Studi*, etc., ii. no. 453.

Giovanni Costo's planisphere of the old and new world, given by M. Canale to Edw. Lester, U. S. Consul at Genoa, in 1844. Cf. *Studi*, etc., ii. p. 181.

89. A. D. 1606. The world by Céspedes.

An engraved map in Céspedes's *Regimiento de Navegacion*, Madrid, 1606. It is of small size, as were all the maps of the new world published in Spain. It resembles no. 88, and ignores the English and French discoveries in North America. The western line of demarcation corresponds to Herrera; the eastern is more favorable to Portugal. The northern shores of America and Asia are but vaguely sketched.

— A. D. 1608.

Map in Gotardus Arthus's *Historia India orientalis*, published at Cologne. Uricoechea, no. 26.

90. A. D. 1613. The world by Oliva.

From a MS. portolano preserved in the Egerton MSS. in the British Museum. The general map is called "Typus orbis terrarum." It is inscribed: "Joannes Oliva fecit in civitate Marsilliae, Año 1613." It has most of the points of Hakluyt's map; but gives South America better. It has the usual arctic islands and antarctic continent of this period. The language of its names is Italian, occasionally Latin. The *Catalogue of MS. maps, Brit. Mus.*, 1844, i. 33, shows this portolano to contain maps of the east coast of North America, of the West Indies, and of South America.

The Brit. Mus. MSS., 25714, is a map of the world by Oliva, put under 1609.

Maps of the world, and of America in the *Detectionis Freti* of Hudson, edited by H. Gerritz.

A map of America by Michael Mercator in the 1613 edition of Mercator's *Atlas*.

— A. D. 1620.

An atlas by Salvatore Oliva in the Biblioteca Laurenziana, Florence, showing the two Americas. Cf. *Studi*, etc., ii. p. 186.

— A. D. 1625.

Hondius's map of the two Americas in *Purchas's Pilgrimes*, iii. 857.

— A. D. 1626.

The map in John Speed's *Prospect*, engraved by Abraham Goos.

91. A. D. 1628. The world (Drake's Voyage).

An engraved map of small size for *The World encompassed by Sir Francis Drake*, London, 1628. The southern continent is called "Magallanica." California is an island.

The map is by Jodocus Hondius, and is reproduced in the Hakluyt Society's ed. of *The World encompassed*. Cf. the Hondius map in the 1613 ed. of Mercator's *Atlas*. Cf. Uricoechea, nos. 29, 30.

92. A. D. 1630. America by De Laet.

An engraved map, "Americæ sive Indiæ occidentalis tabula generalis," in De Laet's *Nieuwe Wereldt*, published at Leyden in 1630. He credits Hessel Gerritz with making the maps from the best published and collected information which De Laet could gather for his use. North America above Labrador and Cape Mendocino is omitted. California is a peninsula, though it was generally made an island at this time. South America is too broad. The southern shore of Tierra del Fuego is left undefined. There is no southern continent. It was repeated in the various editions of De Laet.

III.

NORTH AMERICA.

. Maps of THE TWO AMERICAS contained in Section II. need of course to be consulted to perfect this enumeration of the delineations of North America.

93. A. D. 1525. North America by Lorenz Friess.

From the "Carta marina Portugalensium," made in 1525 by the German geographer, Friess. What is shown of North America is the coast from Yucatan (apparently an island) well up the eastern coast of the present United States, or even farther. The continent is called "Terra de Cuba, partis affrice," while the island, Cuba (not named), is partly shown. The whole geography is very confused and uncertain, and a segment of a large land or island on the eastern edge of the map may perhaps, as Kohl thinks, stand for Newfoundland. There are names on the map which we cannot trace to Ayllon or Ponce de Leon; which leads Kohl to suspect other voyagers on the coast of which we have no other knowledge. It very likely preserves some of the sources used in the Cantino map.

— A. D. circa 1550.

Atlas of about the middle of the century, preserved in the Riccardi palace at Florence; has some maps of North America. Cf. *Jahrbuch des Vereins für Erdkunde in Dresden*, 1870, pl. vi. and ix.

94. A. D. 1566. North America by Zaltieri.

A map engraved on copper at Venice in 1566. It resembles no. 69 for North America, except that in the present map the Straits of Anian separate North America from Asia. The whole of the northeastern part is erroneous; and it is not easy to define correspondences. Newfoundland is seemingly a group of islands. A large lake, not connected with what is apparently meant for the Saint Lawrence, flows through a river called "S. Lorenzo," which might stand for the Penobscot. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 93. It may be compared with a map of Des Liens (North America) of this same year (1566). There is an original in Harvard College Library.

— A. D. 1568.

A map of Diegus [Homem] preserved in the Royal Library at Dresden.

95. A. D. 1575. North America by Porcacchi.

A map entitled, "Mondo nuovo" in Porcacchi's *L'Isola piu famose del mondo* (1576), engraved by G.

Porro. The text is largely based on Bordone. The map is little more than a reduction of Zaltieri (no. 94).

It originally appeared in the 1572 edition; and was repeated in the 1576 edition. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 96.

— A. D. 1578.

The Martines Atlas in the British Museum, shows (nos. 10 and 15) the coasts of North America. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 97.

96. A. D. 1580. North America by J. Dee.

A MS. map in the British Museum presented by Dr. Dee to Queen Elizabeth, but perhaps not made by him, since it is not in his autograph. The California coast is carried well up beyond the peninsula; but there are no traces of Drake's New Albion. The St. Lawrence Gulf (except the west coast of Newfoundland) and river (without the lakes or any corresponding water) is very well defined. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 98.

97. A. D. 1582. North America by Lok.

An engraved map in Hakluyt's *Divers Voyages*, 1582, since repeated in the Hakluyt Society's edition of that book, and in the *Nar. and Crit. Hist. of America*, iii. 40; iv. 44.

98. A. D. 1593. North America by Judæis.

Inscribed "Americæ pars borealis, Florida, Bacalaos, Canada, Corterealis, a Cornelio de Judæis in lucem edita, 1593." It belongs to his *Speculum Orbis terræ*. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 97.

99. A. D. 1600. North America by Quaden, or Quadus.

Engraved map by Mathias Quaden, or Quadus, which appeared in the *Geographisches Handbuch*, Cologne, 1600, and is entitled, "Nova Orbis pars borealis." The Pacific coast above Lower California is not shown. The northern parts are of the Mercator type. The Central America region is omitted. The mountain ranges run east and west. It is sketched in the *Nar. and Crit. Hist. of America*, iv. 101.

100. A. D. 1625. North America [by Briggs] from Purchas.

Engraved map in Purchas's *Pilgrimes*, vol. iii. Kohl says it has more original value than the other maps in that volume. Hudson's Bay is left with a part of the western bounds of it unfixed, while the western coast of the continent is not drawn above 45°, — indicating by legends on the map a supposed northwest passage. California is shown as an island, with a northern limit under 42°, "as appears by a map brought to London out of Holland."

— A. D. 1635-1636 (?)

The undated *America Septentrionalis* of Joannes Janssen, published at Amsterdam. The *Novissima et accuratissima totius Americæ Descriptio per N. Vischer*, of about the same date. The English translation by Henry Hexham of the Hondius-Mercator Atlas, printed at Amsterdam in 1636, has in vol. i. a

map of the world, showing much the same configuration as is given in vol. ii. in a general map of America, particularly as regards the northern parts.

— A. D. 1644.

A map of America in an edition of Linschoten, published at Amsterdam. It is of the Mercator type.

— A. D. 1646.

Two maps of America, "Petrus Koerius cælavit Anno do. 1646," in Speed's *Prospect of the most Famous Parts of the World*, London, 1668.

— A. D. 1650.

An engraved map of North America by Sanson d'Abbeville. HARRISSE, *Notes sur la Nouv. France*, no. 325.

— A. D. 1651.

An edition of Speed's *Prospect*, 1676, has a map of the world dated 1651, showing North America.

— A. D. 1652.

A map by Visscher, *America nova descriptio*, marked "Autore N. I. Piscator."

— A. D. 1655.

A map in *America, or an exact description of the West Indies*.

— A. D. 1656-1663.

Dr. Peter Heylyn's map of America, in his *Cosmographia*, Robert Vaughan, sculp. There were later editions.

— A. D. 1657.

The *Amérique Septentrionale* of G. Sanson and later editions.

— A. D. 1659.

A "New and accurate map of the world" in the *History of the World*, by Dion Petau or Petavius, London, 1659.

— A. D. 1666.

W. Hollar's map of America. Cf. *Catalogue King's maps in Brit. Museum*, i. 23.

— A. D. 1669.

The map of North America in Blome's *Description of the World*; again in 1670, following Sanson.

— A. D. 1670.

The map in Ogilby's *America*.

— A. D. 1673-74.

Joliet's earliest map, showing North America, of which a reproduction is given in the *Revue de Géographie*, 1880, and in other places; and a sketch in the *Nar. and Crit. Hist. of America*, iv. 208.

— A. D. 1678.

Map of the world in Kircher's *Mundus Subterraneus* (Amsterdam), of the Ortelius type.

— A. D. 1681-84.

Franquelin's MS. map of 1681 made from Joliet's data, of which there is a sketch in the *Nar. and Crit. Hist. of America*, iv. 218; a configuration more elaborately worked out in his great map of 1684, of which there is a sketch in *Ibid.* iv. 228.

— A. D. 1683.

Hennepin's map of North America, dated 1683, 1697.

— A. D. 1685-98 and later.

The map in R. Burton's [N. Crouch's] *English Empire in America*.

— A. D. 1691.

Map of North America in Leclercq's *Établissement de la Foi*, reproduced in Shea's translation of that book.

— A. D. 1692-93.

Sanson's map of North America (1692); and the map published at Amsterdam in 1693 by Mortier. There were later dates.

— A. D. 1694.

L'Amérique Septentrionale of Hubert Jaillot; and his map of the world in 1696.

— A. D. 1700.

Delisle's map of America.

— A. D. 1702.

The map of North America in Campanius' *Nya Sverige*, of which there is a facsimile in the *Nar. and Crit. Hist. of America*, iv. 394.

— A. D. 1709.

La Hontan's map, *Carte Generale de Canada*. The 1703 edition has a sectional map.

— A. D. 1710.

John Senex's map of North America, of which there is a reproduction in David Mill's *Report on the Boundaries of the Province of Ontario*, Toronto, 1873.

— A. D. 1717.

Herman Moll's map of North America, in his *Atlas*. Moll's maps were used in Oldmixon's *America*, 1708 and 1741.

— A. D. 1714-22.

The *Hémisphère septentrional* of Guillaume de l'Isle; and his *Carte d'Amérique*.

— A. D. 1731.

L'Amérique mise au jour par Danet, Paris.

— A. D. 1733.

Henry Popple's *Map of the British Empire in America, with the French and Spanish Settlements adjacent thereto*.

— A. D. 1738.

Map of America in Keith's *Pennsylvania*.

— A. D. 1740.

Delisle's map of North America, of which there is a reproduction in Mill's *Boundaries of Ontario*, 1873.

— A. D. 1741.

Moll's map of North America in Oldmixon's *British Empire*.

— A. D. 1744.

Bellin's map in the *Nouvelle France* of Charlevoix, and his map of the world in 1748.

— A. D. 1746.

The *Amérique Septentrionale* of D'Anville; and the *America Mappa* of Homann.

— A. D. 1747.

The North America of Bowen's *Geography*.

— A. D. 1755-56.

D'Anville's map of North America, and the reproduction of it, "improved" in Douglass's *Summary of the British Settlements in North America*, 1755 (English edition). The map in John Haske's *Present State of North America* (2d ed.) showing the extent of the British claim to territory and the map (1756) in Mill's *Boundaries of Ontario* (1873) showing the French claim.

— A. D. 1757.

L'Amérique Septentrionale, published by Covens and Mortier at Amsterdam; and that in Robert de Vaugondy's *Atlas Universel*.

— A. D. 1760.

L'Amérique, par Sanson rectifiée par Robert, contained with others in Van der Aa's *La Galerie géographique du Monde*.

— A. D. 1762.

L'Amérique par Janvier in the *Atlas Moderne*.

— A. D. 1763.

Delisle's *L'Amérique* of 1722, corrected by Buache. Mat. Scutterius' map of North America. Bowen's *Map of North America*.

. The maps at this time, and later, gave the new definitions of bounds, as fixed by the Treaty of Paris in 1763.

IV.

NORTHERN PARTS OF NORTH AMERICA.

. The maps in Sections II. and III. need to be consulted to supplement the enumeration of the present section.

— A. D. 1496-1631.

J. W. Rundall's map (modern surveys) of Arctic explorations (Baffin's Bay, Hudson's Bay, etc.) between these years is in Thomas Rundall's *Voyages*

towards the Northwest, published by the Hakluyt Society, 1849. See also Petermann's "Karte der Arktischen und Antarktischen Regionen, zur Übersicht der Entdeckungsgeschichte" in his *Geographische Mittheilungen*, xiv. (1865) pl. 12; und *Ergänzungsband*, iv. no. 16, pl. 1; and the map in Peschel's *Geschichte der Erdkunde*, ed. Ruge, 1877, p. 288.

101. A. D. 1503. The North Atlantic.

From a Portuguese portolano, showing the northern coasts, above Nova Scotia. Greenland is tolerably drawn with a broad expanse of water on the west (Baffin's Bay). A second Greenland (Engronelant) is drawn as a peninsula extending from Scandinavia, as in earlier maps, and separated from the true Greenland by a passage to the polar seas.

— A. D. 1503-1504.

A Portuguese chart showing the northeastern coast, given in Kohl's *Discovery of Maine*, p. 174; and in the *Nar. and Crit. Hist. of America*, iv. 35.

— A. D. 1514-1520.

The coast from Nova Scotia to Labrador, as shown in a sketch given in the *Nar. and Crit. Hist. of America*, iii. 56. It is a portion of a chart giving a large part of the coast. Cf. Kohl, *Discovery of Maine*, p. 179; Stevens' *Notes*, and Kunstmann's *Atlas*.

— A. D. 1522-1525.

A map of Lorenz Friess in the *Ptolemy* of 1522 shows Greenland as an elongated island in the N. W. of Europe. There is a facsimile of it in Norden-skiöld's *Broderna Zenos*, Stockholm, 1883. This map is not contained in the 1525 edition of Ptolemy, where a map, "Tab. nova Norbergiæ et Gottiæ," shows Greenland as a much broader peninsula of North-western Europe, called "Engronelant." No. 49 of the 1525 edition is still another delineation, representing "Gronlanda" as a long, narrow peninsula extending southwesterly from the northwest of Europe. A reproduction of this map, ascribed to Ancuparius, the editor of the Ptolemy of 1522, is given in Witsen's *Noord en Oost Tartarye*, vol. ii. (1705).

102. A. D. 1525. Labrador and Greenland, by Lorenz Friess.

From the atlas of Lorenz Friess, 1525, Labrador is called "Terra nova Conterati" (of Cortereal), who is said in a legend to have discovered it in 1510, instead of 1501. The abundance of herring and stock-fish (cod) on the coast is mentioned. The southern part of Greenland is east of Davis Straits. "Terra laboratoris" is made an island, west of, and near to the lower point of Greenland. The Azores (Ilas Axagoras) are shown.

— A. D. 1532.

A map in Ziegler's *Scandia*, etc., published in Strasbourg, and again in 1536, gives a sweep of unbroken coast which he calls "Terra Baccalaos," "Ultiora Gronlandia," "Incognita." Both editions are in the Carter-Brown Library (*Catalogue*, i. nos. 103, 120). There are copies of the 1532 edition in the Collections of Mr. Chas. Deane and Mr. Jas. Carson Brevoort.

103. A. D. 1534. Labrador by Bordone.

Engraved map in his *Isolario*, Venice, 1534. The country is called "Terra de lavoratore"; and it is the earliest extension of a large island which may, as Kohl thinks, stand for North America, whose S. W. point is separated by a strait from the "Mondo Novo" (South America). If this conjecture is correct the strait corresponds to such a passage, as shown in other maps of this time. In the ocean are the islands, "Asmaide," "Bresil," and "Astores."

104. A. D. 1542. Northeast Coast, by Rotz.

From Rotz's MS. *Booke of Idrography* in the British Museum. It shows "New fonde Lande" broken into islands; the coast north of the straits of Belle Isle. A compass conceals what was perhaps intended for Davis or Hudson's Straits; and then north of this a curved peninsula marked "Cost of Labrador," which seems to be Greenland, extends towards "Islande." Kohl points out its resemblance to the Henri II. or Dauphin map (see *sub* no. 58).

— A. D. 1544.

The sectional maps of the Northeast coast, by Jean Allefonsce, of which sketches are given in the *Nar. and Crit. Hist. of America*, iv. 74-77. One of them is reproduced in Weise's *Discoveries of America*.

— A. D. xvi. cent.

Various maps, showing the Northeast coasts of North America, and extracted in part from mappemondes, are sketched in the *Nar. and Crit. Hist. of America*, iv. 81 *et seq.*

Portuguese atlases preserved in the Royal archives and in the Biblioteca Riccardiana at Florence, which show this coast, are mentioned in the *Studi biog. e bibliog. de la soc. ital.*, ii. nos. 451, 452.

— A. D. 1547.

The map of Scandinavia in Bordone represents "Engronelant" as a peninsula of Europe.

— A. D. 1548.

The "Della Terra nova Bacalaos" by Gastaldi in the Italian Ptolemy of 1548, of which there is a sketch in the *Nar. and Crit. Hist. of America*, iv. 88.

— A. D. circa 1553.

Gastaldi's map, *Nuova Francia*, which appeared in the third volume of Ramusio in 1556. There are facsimiles of it in the *Nar. and Crit. Hist. of America*, iv. 91; and in Weise's *Discoveries of America*, p. 356.

105. A. D. 1558. Iceland by A. Mercator.

— A. D. 1561.

Ruscelli's *Tierra Nueva* in the Ptolemy of this year, showing the coast from Florida to Labrador. There are sketches of this map in Kohl's *Discovery of Maine*, 233; Lelewel, *Glog. de Moyen Age*, 170; and *Nar. and Crit. Hist. of America*, iv. 92.

This edition has also a map, *Schomladia*, which shows a peninsula north of "Thyle" and beyond the "Mare Congelatum," which is a supposable Greenland.

106. A. D. 1562. The North Atlantic from the Ptolemy of 1562.

This is an engraved reproduction of the Zeni map, which had been first published in 1558, and had been followed in 1561 by Ruscelli. To the present Ptolemy copy by Moletta, that cartographer adds a note saying that its geography is confirmed by modern navigators, "as we know by letters and marine charts sent to us from divers parts."

See bibliographical memoranda relating to the Zeni map and its influence in Winsor's *Bibliog. of Ptolemy*, sub anno 1562.

— A. D. 1562.

An engraved map of the east coast of North America from Cape Breton to Florida made by Diego Guitierrez, the cosmographer of King Philip, and engraved by Cock.

— A. D. 1567.

"Gruntlandia" (Greenland) is shown in a n.p. of the northern regions in *Olar Magni Historia*, published this year at Basle. There is a facsimile of the map in Nordenskiöld's *Bröderna Venos*, Stockholm, 1883.

— A. D. 1570.

A map of the North Atlantic by Stephanus, based on Icelandic sources, given by Kohl in his *Discovery of Maine*, p. 107, and in Weise's *Discoveries of America*, p. 22. Ortelius gave this year in his *Theatrum Orbis Terrarum*, a map of the northern regions which he called "Septentrionalium Regionum Descrip.," showing "Estotiland" (apparently a part of the main), with "Groclant," "Groenlant," "Drogeo," "Island," and "Frisland" as islands in the north Atlantic. It was repeated in the editions of Ortelius of 1575, 1584, and 1592. There were new engravings of it in Münster's *Cosmographia* in 1595; and in the Cologne-Arnheim edition of *Ptolemy* in 1597.

107. A. D. 1575 (?) Northeast Coast.

From a MS. Portuguese map in the British Museum, inscribed: "On the 20th Nov. 1580, a Portuguese, Fernando Simon, lent this map to John Dee in Mortlake, and a servant of Dee copied it for him." It shows the coast from Cape Breton, north to Hudson's Straits. The St. Lawrence gulf is given, but not the river. Newfoundland is broken into islands. The map resembles that of Freire of 1546 (no. 58); but does not suggest Dee's own map of 1580, as sketched in the *Nar. and Crit. Hist. of America*, iv. 98.

108. A. D. 1578. Frobisher's Discoveries.

Taken from a map in Best's *True Discourse*, London, 1578, and confirming Frobisher's own map of the world (no. 78). There is an engraving of no. 108 in Collinson's *Frobisher's Voyages*, 1867, published by the Hakluyt Society.

109. A. D. 1580. The Polar Regions by Dee.

It represents the polar islands of Mercator; Greenland as a long island, with Estotiland as an island of uncertain limits, southwest of Greenland. "Icaria," "Frisland," and "Tula ins." lie east of Greenland. Dr. Kohl has not annotated it.

— A. D. 1585-87.

A modern map showing Davis's explorations is given in the Hakluyt's Society's edition of *Davis's Voyages*, p. 1.

110. A. D. 1587. Northeast Coast.

From a manuscript atlas in the British Museum, inscribed: *Livre de la Marine du Pilote Pastoret, l'an, 1587*. S. F. M. Dr. Kohl thinks the name may be "Pralut" or perhaps "Pasterot." It shows the coast from Cape Breton to La Mer Glacée. Newfoundland is a group of islands. The straits of Belle Isle is marked as where Cartier passed. The Greenland region resembles No. 104.

111. A. D. 1592. Northeast Coast by Molineaux.

An extract from Molineaux's globe in the Middle Temple, London, showing the St. Lawrence river and gulf; Newfoundland as islands; Davis Straits and Greenland. Molineaux had Davis's charts, now lost. Frobisher's Strait is made to separate the southern part of Greenland from an island,—an error long perpetuated. There is a sketch of this part of the globe in the *Nar. and Crit. Hist. of America*, iii. 213.

112. A. D. 1592. Polar Regions by Molineaux.

From his 1592 globe. Shows the north of Europe and Asia, but of America it gives only the northeast coast of Greenland. It omits Mercator's Polar islands, in which Molineaux finds no ground for belief.

113. A. D. 1597. Labrador and Greenland by Wytfliet.

The engraved map "Estotilandia et Laboratoris terra" in Wytfliet's continuation of Ptolemy. It shows both coasts of "Fretum Joan Davis," and bears a resemblance to this part of the Molineaux globe (no. 111). The erroneous Frobisher's Straits (south of Greenland) are drawn, but not named. Frisland lies an island southeast of Greenland, of which it really was in Kohl's view the southern part.

Another Wytfliet map, "Nova Francia et Canada, 1597," is given in facsimile in the *Nar. and Crit. Hist. of America*, iv. 100. A third map of Wytfliet shows the coast from the St. Lawrence gulf to South Carolina. A fourth represents the archipelago of Newfoundland (as he understood it) and Labrador.

114. A. D. 1598. The North Atlantic, Ed. Ptolemy.

The map "Scandia" in the 1598 (Venice) edition of Ptolemy, translated into Italian by Cernot. A well-known Italian cartographer is known to have made some of the maps of this edition, and may have made this. The American shore is based on the Zeni map.

115. A. D. 159-(?) Greenland and Ireland.

This is called by Dr. Kohl "an English map, 159-?" but he gives no further information. It shows the eastern shore of Greenland, the erroneous "Forboshar's Straits," the islands "Freeseland" and "Island."

116. A. D. 160-? North Polar regions by Mercator.

Engraved map of a part of the northern hemisphere (above 60° lat.) in the *Mercator-Hondius Atlas*, Amsterdam, 1630; but it is assigned to Gerardus Mercator himself; and was made, as Kohl thinks, a little before Mercator's death in 1594. Kohl also calls it the first time the projection was used, which makes the north pole the centre. He represents the four large islands round the pole, which Mercator, getting the idea from Cnoyen, was the first at an earlier date to introduce into maps, and between which he supposes the oceans to flow to the pole, where the superfluous water is absorbed by the south. He places the magnetic pole under 74°, on a line from the pole to the Straits of Anian,—also thought by Kohl a first attempt to locate such pole, but he forgets the attempts of Ruysch, Martin Cortes, and Sanuto. Greenland is made an island with defined northern capes. The land about Davis's Straits is shown much in the same way as in the Molineaux globe of 1592 (no. 111). Mercator gives the same large inland fresh-water sea in northern Canada, with connection with the polar ocean.

A similar map on a smaller scale, extending only to 60° N. lat. is given in Purchas, iii. 625, as "Hondus his map of the Arctic Pole."

117. A. D. 1600. Arctic regions.

An engraved map in De Bry's *India Orientalis, tertia pars*, 1601, where it appears without other explanation than that it was made by "Wilhelmus Bernardus" (Barentz, the Dutch navigator). Kohl and Markham suppose it to have been made by Barentsz on his third voyage, 1596-97. The parts of America shown are Greenland, Fretum Davis, and Estotiland. Markham says regarding the facsimile of the original map which appears in the Hakluyt Society's edition of *Barents' Three Voyages*, that "the map was first published in 1599 by Cornelius Claeszoon in the second part of the abridged Latin edition of Linschoten's *Itinerarium*; but it is wanting in some copies."

This may be compared with the Arctic parts of the map of the world by Molineaux, as reproduced by the Hakluyt Society in 1880.

— A. D. 1600.

A map by Metellus, "Estotilandia et Laboratoris terra." It shows "Groenlandia pars," "Islandia," "Frisland," and "Terre de Laborador."

— A. D. 1601.

Harrisse, *Cabots*, p. 201, refers to a beautifully executed map of the Atlantic, marked: "1601, R. Dieppe par Guillemme Levasseur le 12 de Juillet."

118. A. D. 1608. Greenland.

A little map, showing a small part of "Groenlant," marked also "Hold with Hope." Kohl credits it to Hudson, but gives no explanation.

— A. D. 1609.

The map in Lescarbot's *Nouvelle France*, of which there are sections in facsimile in the *Nar. and Crit. Hist. of America*, iv. 150, 152, 374, 378. It is also reproduced in the Paris reprint and elsewhere.

A map of about 1610, preserved in the French archives, and of which there is a copy in the *Mass. Archives*, is sketched in the *Nar. and Crit. Hist. of America*, vol. iii.

— A. D. 1611.

A map by Jodocus Hondius explaining Barentz's third voyage, which appeared in the Latin ed. of Pontanus's *Amsterdam*, 1611, and in the Dutch ed. of 1614. It is given in facsimile in Asher's *Henry Hudson the Navigator*, published by the Hakluyt Society, 1860. It is called "Tabula Geogr. in qua admirandæ navigationis Cursus et recursus designatur."

— A. D. 16—.

Hondius's map of Iceland is given in Purchas, iii. 644.

119. A. D. 1612. Arctic Regions by Hudson.

Hudson's chart of his northern expedition between Greenland and Hudson's Bay. Kohl makes no comments on this map, which follows an engraved chart in De Bry's *India Orientalis, pars x*, 1613. A facsimile is given in Asher's *Hudson the Navigator*, published by the Hakluyt Society, 1860. It is called *Tabula Nautica*, . . . anno 1612.

120. A. D. 1612. The same.

On this copy Kohl remarks upon the absence of any reference to the map in De Bry's text, which he supposes was copied—as would appear to be the case—by De Bry from Hudson's own chart in the *Descriptio ac delineatio geographica detectionis freti . . . ab Henrico Hudsono Anglo*, Amsterdam, 1612; and again 1613. There are copies in Harvard College library. Cf. Camus, *Mémoire sur de Bry*, p. 258. The Portuguese designation is given to Newfoundland,—"Ilha de Bacalhao."

— A. D. 1612-13.

The Hondius-Mercator atlas of 1613. This has two maps of Europe, which include Greenland and adjacent parts,—one is by Hondius, the other by Mercator.

A portolano (1613) of Johannes Oliva of Marseilles, in the British Museum, in a chart of the north Atlantic gives the east coast of America from Norumbega to Hatteras. Newfoundland is better drawn than before, but Oliva seems to have been ignorant of Lescarbot's map.

Champlain's maps of 1612 and 1613. That of 1612 extends from the southern side of Cape Cod to Labrador, and that of 1613, though different, covers about the same range of coast. They are reproduced in the Quebec and Boston editions of Champlain, and in the *Nar. and Crit. Hist. of America*, iv. 380-382.

121. A. D. 1615. Hudson Straits by Baffin.

The original MS. map is in the British Museum. A colored facsimile is given in *Baffin's Voyages*, published by the Hakluyt Society, 1881; and it is given in outline in Rundall's *Voyages towards the North-west*, published by the same society, 1849. The chart represents Baffin's fourth voyage. Capt. Buck in 1836 was the next to follow this route.

— A. D. 1616, etc.

Petermann in his *Geographische Mittheilungen*, vol. xiii. (1867), pl. 6, gives a map, "Das nördlichste Land der Erde entdeckt 1616 bis 1861," including Bylot and Baffin's map (1616), Ross (1818), Inglefield (1852), Kane (1855), and Hayes (1861).

122. A. D. 1619. Hudson's Straits and Bay.

An engraved map in La Peyrère's *Recueil de Voyage au Nord*, made as that editor says after Danish authorities, — possibly representing Munk's voyage in 1618-19, who named the straits and bay after King Christian. Baffin's Bay becomes "Gulf Davis." The maker of the chart was not aware seemingly of Hudson's explorations in the southern parts of Hudson's Bay.

The same or a similar map appears in La Peyrère's *Relation du Groenland*, Paris, 1647 and 1663.

— A. D. 1624.

Sir Wm. Alexander's map, in Purchas, of which a part is given in facsimile in the *Nar. and Crit. Hist. of America*, iii. 306.

— A. D. 1624-30.

The map by Chapelain, appearing in Isaac de La Peyrère's *Relation du Groenland*, Paris, 1663, is reproduced in an English translation in the volume on *Spitzbergen and Greenland*, published by the Hakluyt Society in 1835. The La Peyrère *Relation* refers to a map "per Martinum filium Arnoldi, ano 1624 & 1625," which had been used in the construction of it; and which was then preserved in the library of Cardinal Mazarin; also to a map made by Capt. Munk on his voyage, reprinted with his narrative, which agrees with a map of Hudson, owned by Chapelain. The same Hakluyt Society volume contains the map of Greenland accompanying Edward Pelham's *God's Power and Providence shewed in the . . . deliverance of eight Englishmen left in Greenland*, 1630, published in London, 1631.

123. A. D. 1625. Greenland.

An engraved map in Purchas's *Pilgrimes*, iii. 472. Kohl has not commented on it, except to call it Spitzbergen, which it seems to be, instead of the modern Greenland. Luke Fox's map (1633) also calls the Asiatic Island by the name of Greenland.

124. A. D. 1631. Hudson's Bay and Greenland by Capt. James.

An engraved map in Capt. Thomas James's *Strange and Dangerous Voyage*, 1633, inscribed "The platt of sayling for the discoverie of a Passage into the South Sea, 1631, 1632." Kohl calls it the earliest map of Hudson Bay giving the entire shore from observation. His latitudes are nearly correct; he omits longitudes. There is a facsimile of part of it in the *Nar. and Crit. Hist. of America*, iii. 96.

125. A. D. 1633. Northern parts by Fox.

An engraved map in Luke Fox's *Northweste Foxe*, London, 1633. It shows the east coast of North America from the Hudson River, including Hudson's and Baffin's Bays, to Greenland, and the west coast above Cape Mendocino to a point north of the straits which separated what was then supposed to be the Island of California at its northern end from the main.

— A. D. 1636, etc.

Maps of Baffin's Bay by Luke Fox (1636), Hexham's Mercator-Hondius (1636), Moll (1706), Barrington (1818), and modern charts are given in Markham's *Voyage of William Baffin*, published by the Hakluyt Society, 1881. The Fox map is reproduced in the *Nar. and Crit. Hist. of America*, iii. 98.

— A. D. 1644-63.

An engraved map of Iceland by Du Val in La Peyrère's *Relation de l'Islande*, Paris, 1663.

— A. D. 1646.

Robert Dudley's map of the St. Lawrence and adjacent parts, continued in his *Arcano del Mare* (Florence, 1647), p. 52; and sketched in the *Nar. and Crit. Hist. of America*, iv. 388. It is called in Dudley: "D'America Carta prima."

— A. D. 1656.

Sanson's *Le Canada* includes the region about Hudson's Bay.

— A. D. 1660.

The *Tabula Novæ Francia* of Du Creux or Creuxius, of which a portion is given in facsimile in the *Nar. and Crit. Hist. of America*, iv. 389.

— A. D. 1661.

North America in the *Zee-Atlas* of Van Loon.

— A. D. 1662.

"A chart of Hudson's Straights and Bay, of Davis's Straights and Baffin's Bay, as published in the year 1662," is given in T. S. Drage's *Account of a Voyage for the Discovery of a Northwest passage*, London, 1749, vol. ii.

126. A. D. 1669. Greenland by Goos.

An engraved map in Pietro de la Goos's *Atlas de la marine*, Amsterdam, 1669. He makes Frobisher's Straits cut off the southern end of Greenland, and gives many names, unknown in earlier maps, to the shore of Greenland, opposite Iceland; while Dutch names on the western coast would indicate explorations by Hollanders in that region.

127. A. D. 1685. Hudson's Bay by Jaillot.

It shows the French and English posts: and Kohl says the information is drawn almost entirely from Canadian sources.

Bleau's atlas of 1685 gives maps showing the northern parts.

— A. D. 1687.

Morden's maps in Blome's *Present state of His Majesty's Isles and Territories in America*.

— A. D. 1716 (?)

Delisle's *Carte du Canada* shows also the polar regions. It is also in the atlas published by Covens and Mortier at Amsterdam.

— A. D. 1720.

C. G. Zorgdragers, *Groenlandsche Visschery*, Amsterdam, 1720, had maps of the Polar regions, Greenland and Iceland, which are repeated in the Copenhagen edition of 1727. Frobisher's Straits are represented as cutting off the southern part of Greenland.

— A. D. 1728.

The *Atlas maritimus et Commercialis*, London, 1728, has a map of the St. Lawrence Gulf, and the Northeastern coasts.

128. A. D. circa 1730. Between Lake Superior and Hudson's Bay.

A MS. map by De la Veranderie preserved in the Dépôt de la Marine in Paris. "Donnée par Monsieur de la Galissonnière, 1750." It shows the country between Lake Superior and Hudson Bay, with its waters and portages, and forts and trading-posts.

129. A. D. 1730. Country Northwest of Lake Superior.

An Indian map, made by Ochagach, preserved in the Dépôt de la Marine, showing water-ways and portages. Kohl supposes it to have been carried to Europe by De la Veranderie, who used it in compiling map no. 128.

130. A. D. 1740. Hudson Bay Country.

Kohl calls this map a sketch of the territory explored by De la Veranderie, and says the original in the Dépôt de la Marine at Paris is called, "Carte des Nouvelles découvertes dans l'ouest du Canada et des nations qui y habitent. Dressée, dit-on, sur les Mémoires de Monsieur de la Veranderie, mais fort imparfaite à ce qu'il m'a dit. Donnée au Dépôt de la Marine par Monsieur de la Galissonnière en 1750."

— A. D. 1741.

An engraved map of Greenland in Hans Egede's *Grønland*, Copenhagen, 1741; repeated in the German edition, Copenhagen, 1742; and called "Grønlandia Antiqua;" also in the *Beschreibung von Grønland*, translated by Krünitz, Berlin, 1763.

Cf. the map by Paul Egede in his *Efterretninger om Grønland*, Copenhagen, 1789.

— A. D. 1742.

The northeastern coasts in the *English Pilot* of 1742 and later dates.

131. A. D. 1746. Northwest parts of Hudson Bay.

An engraved map in *The Probability of a Northwest passage*, by Theodore Swaine Drage, clerk of the "California" (one of the ships), London, 1768, purporting to record discoveries of Capt. Smith and Capt. Moor in 1746-47. Drage accompanied Smith and Moor on this voyage.

There is a chart of Hudson Bay and straits according to the discoveries between 1610 and 1743 in Drage's *Account of a Voyage for the Discovery of a Northwest passage*, London, 1748, vol. i., and in vol. ii. the same map as that used by Kohl.

132. A. D. 1747. Wager's Bay by Ellis.

An inlet in the northwest part of Hudson's Bay, mapped by Ellis, who accompanied Smith and Moor. It was named on Middleton's voyage.

— A. D. 1746-47.

A map of Hudson's Bay and adjacent parts in the German edition of Henry Ellis's *Reise nach Hudson's meerbusen*, Göttingen, 1750. This map is not in the Harvard College copies of the English and French editions.

133. A. D. 1748. Hudson's Bay by Ellis.

An engraved map in Henry Ellis's *Voyage to Hudson's Bay*, London, 1748, an account of the expedition of Francis Smith and Wm. Moor. The map was re-engraved in the German edition, Göttingen, 1750; and in the French edition, Paris, 1749. It shows the region from California to Greenland, and north of Lake Erie. The expedition was fitted out by London merchants, and after Parliament in 1743 had offered £20,000 for the discovery of a northwest passage. Kohl remarks that the discoveries of Hudson, Baffin, Fox, and James are not well delineated by Ellis.

134. A. D. 1763. Hudson Bay by Bellin.

Without comment by Kohl.

135. A. D. 1774. Hudson's and Baffin's Bays by Samuel Dun.

An engraved map, showing all the inlets of Hudson's Bay closed up at their interior extremities, indicating the end of the belief in a westerly passage being discovered through any of them. Baffin's Bay is represented as a large oval, among some of whose western passages (it is stated on the map) a passage may yet be possible to the Pacific. "Christian Sea" (King Christian's Sea) discovered by Munk in 1629, is put in the northerly part of Baffin's instead of Hudson's Bay.

— A. D. 1774.

Map of the north Polar regions in the *The Journal of the Voyage by Phipps and Lutwidge*, London, 1774.

136. A. D. 1765. Greenland by Cranz.

An engraved map in David Cranz's *Historie von Grønland*, 1766, and second edition, 1770; repeated in the English translation, London, 1767.

— A. D. 1783.

Map of the Arctic regions in J. R. Forster's *Voyages and Discoveries made in the North*.

137. A. D. 1785. Hudson's Bay Country by Pond.

A MS. map in the archives of the Hudson's Bay company in London, inscribed: "Copy of a map presented to the Congress by Peter Pond, a native of Milford in the State of Connecticut. This extraordinary man has resided seventeen years in those countries, and from his own discoveries as well as from the reports of the Indians, he assures himself of having at last discovered a passage to the North Sea. He is gone again to ascertain some important

observations. New York, 1st March, 1785, copied by St. John de Crevecoeur for his Grace of La Rochefoucault." Pond's various sojourns are indicated,—the most southern on St. Peter's (Mississippi) River, 1774; the most northern near Lake Athabaska, 1782-83. He puts down the great Northern Sea too far south by ten degrees.

138. A. D. 1789 and 1793. Discoveries of Alexander Mackenzie.

Mackenzie started from Fort Chipewyan on the Lake of the Hills, in June, 1789, and followed the river now known by his name to near its junction with the Northern Sea. In 1793 he followed the Unjiah or Peace River to the Rocky Mountains, thence to the Pacific. Mackenzie seems to have used Arrowsmith's map and Vancouver's surveys, in this map, which accompanies the books which he published about his explorations.

139. A. D. 1790. Hudson's Bay Country by Turner.

A MS. map in the archives of the Hudson Bay Company in London, inscribed: "Chart of lakes and rivers in North America by Philipp Turner." Turner was the surveyor of the company and made his principal exploration in 1790-92, in company with Peter Fiedler, his successor as surveyor; and of this exploration Turner wrote an account preserved in the company's archives, of which this map was an illustration. Kohl calls it the oldest of the tolerably correct surveys which we have between the Saskatchewan River and Slave Lake. The rivers whose course is put down from Indian reports are marked by two crosses.

140. A. D. 1799. Greenland and Baffin's Bay by Laurie and Whittle.

An engraved chart published in London. It shows the notions prevailing before Ross's explorations.

— A. D. 1811.

A map of the Arctic regions in E. A. W. von Zimmermann's *Die Erde und ihre Bewohner*, Leipzig, 1811.

— A. D. 1818.

A general map of the Arctic regions in Barrington's *Possibility of approaching the North Pole*, London, 1818.

— A. D. 1818.

Map of the route of the ship "Alexander" in Baffin's Bay, by W. E. Parry, in a *Journal of a Voyage of Discovery to the Arctic regions*, 1818, published at London [1819].

— A. D. 1818.

A facsimile of map of the Arctic regions in 1818, with discoveries since that date inserted in red, given in Hall's *Second Arctic Expedition*, Washington, 1879.

— A. D. 1818-23.

Map of the discoveries by Ross, Parry, and Franklin, in Franklin's *Journey to the Shores of the Polar Sea*, London, 1823.

— A. D. 1819-20.

Map of Arctic regions showing route of Parry's ships, in his *Journal of a Voyage for the Discovery of a Northwest passage*, London, 1821.

— A. D. 1819-54.

Chart of discoveries in the Arctic Seas in Belcher's *Last of the Arctic Voyages*, London, 1855.

— A. D. 1820.

Arctic regions by Wm. Scoresby, jr., including Ross's explorations, in *An Account of the Arctic Regions*, by W. Scoresby, jr., London, 1820.

141. A. D. 1820. Hudson's Bay Countries by Harmon.

It shows the country from Hudson's Bay and Lake Superior on the east to the Pacific on the west. Harmon was an officer of the Hudson's Bay Company who published this map in a journal of his explorations.

— A. D. 1821-23.

Map of Parry's second route, in his *Journal of a Voyage for the Discovery of a Northwest Passage*, London, 1824, with detailed maps in the same volume.

— A. D. 1822.

Map of Greenland by Scoresby in a *Journal of a Voyage to the Northern Whale Fisheries*, by W. Scoresby, jr., Edinburgh, 1823, with a special chart of surveys on the east coast.

142. A. D. 1823. Arctic Regions after Parry.

Parts north of Hudson's Bay. Kohl does not comment on it.

143. A. D. 1824. East Greenland by Scoresby.

Without comment by Kohl.

— A. D. 1824-25.

Map of Prince Regent's inlet drawn by Parry and Head, in Parry's *Third Voyage*.

144. A. D. 1833. Proposed Route of Capt. Back.

See Royal Geographical Society's *Journal*, iii. 64.

145. A. D. 1833-34. Back's River.

See Royal Geographical Society's *Journal*, vol. vi. (1836). It shows his exploration, beginning at the Great Slave Lake, of the Great Fish River, never before followed, when he started to relieve Capt. Ross, then supposed to be confined in the ice, north-west of Hudson's Bay.

146. A. D. 1834. Back River.

Another map of the same region, without comment by Kohl.

147. A. D. 1836-37. Hudson's Strait.

It shows the track of the "Terror," following a map in the Royal Geographical Society's *Journal*, vol. vii., accompanying Capt. Back's report on the north-eastern shore of Southampton Island,—the closest observation since Baffin's voyage in 1615.

148. A. D. 1840. Peel River by Isbister.

In Royal Geographical Society's *Journal*, xv. 333, accompanying an account by A. K. Isbister, of his explorations not only of Peel River, but also of Red and other branches of the Mackenzie River, flowing to the Arctic Sea.

— A. D. 1845.

The Arctic regions as known in 1845, — a copy of the map supplied to the Franklin expedition, in Hall's *Second Arctic Expedition*, Washington, 1879.

149. A. D. 1851. Arctic Coast explored by Dr. Rea.

An engraved map extracted from the Royal Geog. Society's *Journal* (1852), xxii. 73, where it is accompanied by two reports of explorations in search of Sir John Franklin.

— A. D. 1850-51.

A map of Wellington Channel and Grinnell land by Lt. De Haven and Capt. Penny, in Peter Force's pamphlet on *Grinnell land*, 1852.

150. A. D. 1851-52. Discoveries of Kennedy and Bellot.

This shows the exploration of travelling parties from the ship "Prince Albert," wintered at North Somerset, on Prince Regent inlet, in search of Sir John Franklin's party. It is copied from one in the Royal Geog. Society's *Journal*, xxiii. (1853.)

151. A. D. 1852. Smith Sound by Inglefield.

Copied from a map in the Royal Geog. Society's *Journal*, vol. xxiii., accompanying a report of Capt. E. A. Inglefield, who was the first to examine the sound forming the northern parts of Baffin's Bay, Baffin himself having only seen its beginning in 1615.

— A. D. 1861, etc.

North polar chart in Sir John Richardson's *Polar Regions* (1861); maps of the "American Arctic Sea," "Smith Sound" and "North Polar Regions" in C. R. Markham's *Threshold of the Unknown Region*, 1873.

. No attempt is made to enumerate the multitude of recent maps of the Arctic regions.

V.

CANADA.

*. The best enumeration of maps covering Canada which has yet been printed is in HARRISSE's *Cabots* and his *Notes sur la Nouvelle France*. Cf. maps under sections II. and III., ante.

— A. D. 1508.

Respecting the apocryphal map of Jehan Denys, see *Nar. and Crit. Hist. of America*, iv. p. 36.

— A. D. 1521.

Respecting the extremely doubtful map attributed to Lazaro Luis, see *Nar. and Crit. Hist. of America*, iv. p. 37.

— A. D. 1532.

The map in Ziegler's *Schondia*, etc., Strasburg, 1532 and 1536, shows vaguely the Bacallaos coast. It is given in facsimile in the *Nar. and Crit. Hist. America*, vol. ii.

— A. D. 1534.

A map by Gaspar Viegas of Newfoundland and the Gulf of St. Lawrence is depicted in Kohl's *Discovery of Maine*, pl. xviii.

— A. D. 1542.

Maps in Rotz's *Idrography*.

— A. D. 1545.

The charts of Jean Allefonsee of the region of the Gulf of St. Lawrence, which are sketched in the *Narrative and Crit. Hist. of America*, iv. 74 et seq.; some of which are also given in Weise's *Discoveries of America*, 355, and in Murphy's *Verrazzano*.

— A. D. 1545.

Carte des Côtes Nord-est de l'Amérique, in the Musée Correr at Venice, noted by HARRISSE, *Notes sur la Nouvelle France*, no. 188.

152. A. D. 1546. Canada and Labrador by Juan Freire.

It shows the coast from 34° N. Lat. to 72° N. Lat., and develops the Gulf and River St. Lawrence. It is called: *Carte du Canada, Labrador, &c.*, tirée d'une Portulan Portugais de l'année 1546 dans la possession de Monsieur le Vicomte [Santarem] de Paris. Kohl considers that Spanish, Portuguese, and French authorities were used. He assigns the regions of the Cortereals — *esta he a tera dos Cort-Reais* — to the territory between what seems to be Penobscot Bay and the St. Lawrence. The names along the latter river are French, corrupted by Portuguese; and so on the eastern coast of Newfoundland, whose western coast is not drawn. There are various imaginary islands in the Atlantic. It is sketched in the *Nar. and Crit. Hist. of America*, iv. p. 86.

153. A. D. 1546. Newfoundland by Freire.

Contained in a Portuguese portolano, of which Libri published, says Kohl, in London a facsimile.

It is inscribed: *Joham Freire a fca era de 546*. It shows the eastern coasts of Labrador and Newfoundland from Hudson's Straits south, the south-western coast of Newfoundland, and the opposite coast of Cape Breton. (Libri sale, Mar. 20, 1859, £91.)

154. A. D. 1547. East Coast of North America by Nicolas Vallard, of Dieppe.

The coast is given from the end of Florida to the Labrador shore, developing the Gulf and River St. Lawrence. It is part of a MS. map in the Sir Thomas Philipps collection. The map is endorsed *Terre de Bacalos*. The source of the delineation south of Cape Breton is Spanish, and it shows no trace of Verrazano. Kohl thinks that, for the region north of Cape Breton, the map is based on the maps of Alfonse and Cartier. He remarks on the half Portuguese name of the St. Lawrence, — *Rio do Canada*. The *G. lorens* of the map is not the great gulf, but a small bay opposite the north shore of Anticosti. The eastern shore of Newfoundland has a mixture of French and Portuguese names. On Labrador they are mostly Portuguese. The name of Vallard may signify ownership rather than mark the maker. Cf. *Nar. and Crit. Hist. America*, iv. p. 86, and for a sketch, p. 87.

155. A. D. 1547.

A less perfect copy of the preceding.

156. A. D. 1548. Canada.

The coast from Greenland (apparently) to Nova Scotia, with the Gulf and River St. Lawrence developed. Part of a mappemonde which was communicated to Kohl by Jomard, and thought, as Kohl says, by the latter to have been made by order of Henri II. A figure of Robeval among his soldiers is drawn on the map. The northern parts of the Atlantic are called *Mer de France*; the more southerly, *Mer d'Espagne*. Newfoundland is a group of islands. St. Laurens is a small bay, as in no. 154. The St. Lawrence river is not named, but the Saguenay (R. du Sagnay) is. Since Kohl's day, R. H. Major has deciphered an inscription which assigns its authorship to Pierre Desceliers in 1546. Jomard gives it in facsimile; it is sketched in the *Nar. and Crit. Hist. of America*, iv. p. 85.

— A. D. 1548.

Gastaldi's map, "Della terra nova Bacalaos," in the Italian Ptolemy of 1548.

157. A. D. 155-? Canada.

This represents North America as an island, of which the St. Lawrence is a central basin. Somewhere on the coast of South Carolina a strait connects the Atlantic with the Western Sea, which also washes all the northern confines of the land. Newfoundland is divided by channels, as in the Ramusio map of 1556, and the names on the Eastern shore are Portuguese with French transformations. The names on the lower portion of the Atlantic coast are of Spanish origin. The Atlantic has the usual sprinkling of imaginary islands. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 89.

158. A. D. 155-?

The same, less perfect.

159. A. D. 1556. La Nuova Francia in Ramusio.

A copy from the engraved map in Ramusio. Kohl suspects that it may have been drawn after Jehan Deny's lost map, and that Ramusio did not have access to Cartier's charts. It is reproduced in the *Nar. and Crit. Hist. America*, iv. p. 91, and in Weise's *Discoveries of America*, p. 356.

159 a. A. D. 1556.

Another copy of the same. The two maps of Gastaldi in Ramusio, "Terra de Labrador et Nova Francia" and "Terra de Hochelaga nella nova Francia," are supposed to have been made in 1553. Cf. HARRISSE, *Notes*, nos. 292, 293.

160. A. D. 1556 (?) Newfoundland, etc.

It also shows Labrador and the coast of Maine, and is taken from a portolano in the British Museum, and in its catalogue it is described as "on vellum in the Spanish language, and executed in the sixteenth century." The coast stretches from 45° to 64° north latitude. It resembles, so far as it goes, no. 152, but it has no indication of the Gulf or River St. Lawrence. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 87.

161. A. D. 1558. Canada and adjacent parts by Diego Homem.

It shows the eastern coast of North America from 28° N. Lat. to 70°. The Bay of Fundy is developed, and the basin of the St. Lawrence is converted into a northern ocean. The original is in a MS. atlas by Homem in the British Museum. The names of the St. Lawrence region are French, of the coast south of the gulf Spanish, and north of it Portuguese. Cf. sketches in Kohl's *Disc. of Maine*, p. 377, and *Nar. and Crit. Hist. America*, iv. p. 92.

162. A. D. 1558.

Another copy of no. 161.

163. A. D. 1562 and 1574. East Coast of North America.

This gives the coast from 34° N. Lat. to 60°. Newfoundland is a cluster of islands. The St. Lawrence is a network of small streams. The original is an engraved map in the Ptolemies of 1562 and 1574, called "Tierra Nueva." It is based on the Ramusio map of 1556, and there are sketches of it in Kohl's *Disc. of Maine*, p. 233; Lelewel's *Glog. du Moyen-Age*, p. 170; and *Nar. and Crit. Hist. America*, iv. p. 92.

— A. D. 1575.

A Portuguese map of about 1575 in the British Museum, showing the coast from Cape Breton to Labrador.

164. A. D. 1597. Nova Francia et Canada, by Wytfliet.

It shows the Gulf and River St. Lawrence with Labrador. The original is an engraved map in Wytfliet's Continuation of Ptolemy, and is reproduced in facsimile in the *Nar. and Crit. Hist. America*, iv. p. 100. Cf. also Wytfliet's maps, showing Labrador and Greenland, and Newfoundland and the adjacent parts. See *ante*, no. 113.

The maps were repeated in the Douay edition of 1605, etc.

165. A. D. 1609. New France by Lescarbot.

It shows the coast from 40° N. Lat. to 54°, with the course of the St. Lawrence. It follows an engraved map in Lescarbot's *Nouvelle France*. The entire map is reproduced in Faillon's *Colonie Française*, i. p. 85, in Tross's reprint of Lescarbot, and in the *Popham Memorial*. Parts of it are given in the *Nar. and Crit. Hist. America*, iv. p. 152, 304, 379.

See also the 1612 edition of Lescarbot.

— A. D. 1612.

Champlain's map, which is reproduced in the Boston and Quebec reprints of Champlain, and in the *Nar. and Crit. Hist. America*, iv. pp. 380, 381.

— A. D. 1613.

Champlain's map, which is reproduced in the Boston and Quebec editions of his works; and in part in the *Nar. and Crit. Hist. of America*, iv. p. 383. The edition of 1613 had various smaller local maps.

166. A. D. 1613. Canada and Norumbega by J. Oliva.

Showing the coast from 42° N. Lat. to 68°, with the course of the St. Lawrence. The original is in a MS. portolano in the British Museum, marked: *Joannes Oliva fecit in civitate Marsilie, anno 1613*. Newfoundland, as Kohl remarks, is unusually well drawn; but the rest of the map is much behind the best knowledge of the time. See *ante*, no. 90.

167. A. D. 1625. New England and New France, from Purohas.

The main sources of this map appear to be Lescarbot's map of New France and John Smith's map of New England. The original appeared in Purchas's *Pilgrims*, following one in Sir William Alexander's *Encouragement to Colonies* (1624). It is given in part in the *Nar. and Crit. Hist. America*, iii. ch. 9.

168. A. D. 1626. Newfoundland by Mason.

The original is an engraved map in *The Golden Fleece*, by Orpheus, Junior, London, 1626. The map is inscribed: "Newfoundland described by Captaine John Mason, an industrious Gent., who spent seven yeares in the Countrey." Cf. *Nar. and Crit. Hist. America*, iv. p. 379.

169. A. D. 1630. New France by De Laet.

It shows the coast from Cape Cod to Labrador, and as far inland as Lake Champlain. The original is an engraved map in De Laet's *Nieuwe Wereldt*. The map is apparently based on the maps of Purchas, Lescarbot, and Champlain. It was repeated in the Latin (1633) and the French (1640) editions. It is sketched in the *Nar. and Crit. Hist. of America*, iv. p. 384, and in Cassell's *United States*, i. 240.

170. A. D. 1632. New France by Champlain.

This follows the engraved map in the edition of 1632. It is reproduced in the Quebec and Boston editions of Champlain, in O'Callaghan's *Doc. Hist. of N. Y.*, vol. iii., and in the *Nar. and Crit. Hist. America*, iv. pp. 386, 387.

171. A. D. 1632.

An unfinished sketch of the same map.

172. A. D. circa 1640. Canada.

After a rough draft preserved in the Dépôt de la Marine at Paris. Its chief peculiarity is in making Lakes Superior and Huron flow into the St. Lawrence through the Ottawa, with no passage for their waters through Erie and Ontario. Lake Michigan is not indicated. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 202. Is this the map noted by Harrissee, *Notes*, etc., no. 197, which he puts sub anno, 1665?

— A. D. 1641 (?).

Rivière St. Laurent (Montreal to Tadoussac), noted in Harrissee, *Notes*, etc., no. 191.

— A. D. 1647.

The "Canada" map of Dudley's *Arcano del Mare*, of which a sketch is given in the *Nar. and Crit. Hist. America*, iv. p. 388.

— A. D. 1656.

Sanson's *Le Canada, ou Nouvelle France*. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 391. Cf. Harrissee, *Notes*, etc., no. 327.

173. A. D. 1660. New France.

Inscribed *Tabula Novæ Franciæ anno 1660*, and the language of the map is Latin. It corresponds in extent nearly to the Champlain map of 1632. Kohl speaks of it as a map which he found in the great Paris library; but it is really the engraved Du Creux or Creuxius map, which is given (in part) in facsimile in the *Nar. and Crit. Hist. America*, iv. p. 389. Cf. Harrissee, *Notes*, etc., no. 329.

— A. D. 1662.

Map in Blaeu's *Atlas*, of which a sketch is given in *Nar. and Crit. Hist. America*, iv. p. 391. It was repeated by Blaeu in 1685.

— A. D. 1663.

A map of the course of the St. Lawrence, of which a sketch is given in the *Nar. and Crit. Hist. of America*, iv. p. 148.

A map in the *Jesuit Relation* of 1662-63, of which a portion is given in facsimile in the *Nar. and Crit. Hist. of America*, iv. p. 311.

174. A. D. 1666. Lakes Champlain and Ontario.

It is called: "Carte des grands lacs Ontario et [Champlain] et des pays traversés par M^{rs} de Tracy et Courcelles pour aller attaquer les Agniesz, 1666." The original is in the Dépôt de la Marine at Paris. It gives the Hudson from Orange [Albany] upwards. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 312. Cf. Faillon, *La Colonie Française*, iii. 125, and Harrissee, *Notes*, etc., no. 332.

175. A. D. 1666. Lakes Ontario and Champlain.

Copied from an engraved map in the *Jesuit Relation* of 1664-65. See *Nar. and Crit. Hist. America*, iv. pp. 311, 312, 313.

— A. D. 1666.

Le Canada ou la Nouvelle France: par Nicolas Sanson, Paris, 1666.

The same, by Frederic de Witt.

Harrissee (*Notes*, etc. nos. 334, 335) says he borrows these titles from P. Lelong's *Bibliothèque Historique*, i. no. 1452, 1453.

— A. D. 1668.

Carte du pays des cinq Nations Iroquoises Kenté in Faillon, *La Colonie Française*, iii. 196.

176. A. D. 1670. Lake Superior.

Copied from the map which appeared in the *Jesuit Relation* of 1670-71. Facsimiles of this map are given in Bancroft's *United States*, orig. ed., iii. p. 152; Whitney's *Geol. Rept. of Lake Superior*, Monette's *Mississippi*, vol. i., and *Nar. and Crit. Hist. America*, iv. p. 313. Cf. Harrissee, *Notes*, etc., no. 340.

— A. D. 1670.

Dollier and Gallinée's map of Lakes Ontario and Huron, sketched in the *Nar. and Crit. Hist. America*, iv. p. 203. Cf. Harrissee, *Notes*, no. 200.

An undated MS. map, also sketched in *Ibidem*, iv. p. 206, shows the upper lakes and the upper Mississippi.

— A. D. 1670.

The *Novi Belgii Tabula* in Ogilby's *America*, p. 169; reproduced in the *Nar. and Crit. Hist. America*, iv. p. 392.

— A. D. 1671.

Lac Tracy ou Supérieur, a MS. in the library of the Dépôt de la Marine, at Paris, noted in Harrissee, *Notes*, etc., no. 201.

— A. D. 1673.

Carte de la nouvelle découverte que les pères Jésuites ont fait en l'année 1672, et continuée par le P. Jacques Marquette, — a MS. map belonging to the National Library in Paris, which Harrissee says (*Notes*, etc., 202) cannot now be found.

— A. D. 1673.

Carte des missions des PP. Jésuites sur le lac des Illinois, in the *Jesuit Relation*, 1673-79, as published in New York in 1860.

177. A. D. 1675. The Great Lakes and the Upper Mississippi by Joliet.

The original is in the Dépôt de la Marine at Paris, and has on it a letter addressed to Frontenac. See Harrissee, *Notes*, etc., no. 203-204.

In the *Nar. and Crit. Hist. America*, iv. (p. 208), is Joliet's earliest map (1673-74), with indications of places where it can be found in facsimile; (pp. 212, 213) is what is known as Joliet's larger map of 1674; and (p. 214) his smaller map. In the same book (p. 215) is another early map of the basin of the Great Lakes from the Parkman Collection, and (p. 218) a sketch of Joliet's "Carte Générale." Cf. Harrissee, *Notes*, etc., nos. 214, 342, 343. As to the genuine and spurious map of Marquette see *Ibidem* (p. 220), and sketch. This last map is also in Andreas's *Chicago*, i. 47.

— A. D. 1676.

Pascaerte van Terra nova, Nova Francia, Nieuw Engeland en de Groote Rivier van Canda in Roggeveen's *Tourbe Ardente*, and in the English edition, *The Burning Fen*.

178. A. D. 1677. Canada by Du Val.

This map is inscribed as follows: "Le Canada, fait par le Sr. de Champlain ou sont la Nouvelle France, Nou Anglet, Nou Holl, Nou Suedc, Virginie, et autres terres nouvellement decouvertes suivant les memoires de T. du Val, Géogr. du Roy, Paris, 1677." Cf. *Nar. and Crit. Hist. of America*, iv. p. 388. HARRISSE, *Notes*, etc. (no. 331), gives an edition of 1664, as well as that of 1677 (no. 348).

— A. D. 1679.

Map of Joliet's route from Tadoussac north, in the Archives of the Marine in Paris. HARRISSE, *Notes*, etc., no. 207.

Various sectional maps, preserved in the library of the Marine at Paris, are noted in HARRISSE's *Notes*, etc., nos. 209-213.

— A. D. 1681.

A map (27° to 44° N. Lat.) in the library of the Marine at Paris, made by Franquelin. Cf. HARRISSE, *Notes*, etc., no. 215, and others of Franquelin, in nos. 216, 217, 218.

179. A. D. circa 1683. The Great Lakes and the Upper Mississippi by Raffelz.

It is called: "Parties les plus occidentales du Canada." It is sketched in the *Nar. and Crit. Hist. America*, iv. 233. HARRISSE (*Notes*, no. 238) puts it under the year 1688.

— A. D. 1683.

Hennepin's *Carte de la Nouvelle France* in his *Description de la Louisiane*. There are facsimiles in Shea's translation of that book; in Winchell's *Geol. Survey of Minnesota*, pl. 6; and it is given in part in the *Nar. and Crit. Hist. America*, iv. p. 249. This may be compared with Hennepin's *Carte d'un très grand pays* in the editions of his *Nouvelle Découverte* of 1697, 1698, 1704, 1711, etc., and of which a facsimile (in part) is given in the *Nar. and Crit. Hist. America*, iv. 251. Cf. also Breese's *Early Hist. of Illinois*, p. 98.

Hennepin's *Carte d'un très grand pays* (1697, 1704, etc., and with English names in the English edition) is also in facsimile in the *Nar. and Crit. Hist. America*, iv. 252-253. Cf. HARRISSE, *Notes*, etc., no. 219, 352.

— A. D. 1684-1686.

Franquelin's great map of 1684, see *ante*, under no. 100, and HARRISSE's *Notes*, nos. 222, 223. The map (1685) which Franquelin made of the St. Lawrence, after material furnished by Joliet. HARRISSE, *Notes*, no. 229. Franquelin's maps (1686), noted in HARRISSE, nos. 231, 232,—of one of which there is a copy in the Parliamentary Library (Canada). See its *Catalogue*, p. 1616.

— A. D. 1685.

Partie de la Nouvelle France par Hubert Jaillot. Cf. HARRISSE, *Notes*, etc., no. 354.

— A. D. 1687.

Pierre Allmand's discoveries between Quebec and Hudson's Bay, as given in the map preserved in the Archives of the Marine. HARRISSE, *Notes*, no. 233.

180. A. D. 1688. Ontario and Erie by Raffelz.

It is inscribed: "Le lac Ontario avec les lieux circonvoisins et particulièrement Les Cinq Nations Iroquoises, 1688." The original is in the National Library at Paris. It is sketched in the *Nar. and Crit. Hist. America*, iv. p. 234. Cf. HARRISSE, *Notes*, no. 237.

— A. D. 1688.

Franquelin's map of the Upper Lakes and the Upper Mississippi as given in Neill's *Minnesota* (1882); *Nar. and Crit. Hist. America*, iv. pp. 230, 231; and in Winchell's *Geol. Survey of Minnesota*, Final Report, i. pl. 2. Cf. HARRISSE, *Notes*, nos. 234, 240.

Coronelli and Tillemon's printed maps (1688) of *Partie occidentale du Canada* (sketched in *Nar. and Crit. Hist. America*, iv. p. 232), and *Partie orientale*. Cf. HARRISSE, *Notes*, etc., nos. 359, 361.

— A. D. 1691.

Carte generale de la Nouvelle France, etc. Cf. HARRISSE, *Notes*, etc., no. 364; also no. 367.

Nuova Francia e Luigiana, in *Il Genio vagante*, Parma, 1691.

— A. D. 1692.

Franquelin's *Nouvelle France*. Cf. HARRISSE, *Notes*, no. 248.

— A. D. 1696.

Le Canada by H. Jaillot, showing the routes between the lakes and Hudson's Bay.

Le Cordier's *Carte de la Baye de Canada*, etc. Cf. HARRISSE, *Notes*, etc., no. 372.

— A. D. 1699.

Franquelin's *Partie de l'Amérique Septentrionale ou est compris la Nouvelle France*, preserved in the library of the Marine, and noted in HARRISSE, *Notes*, no. 259.

— A. D. 1703.

La Hontan's map of the great lakes in his *New Voyages*, London, 1703; redrawn in his *Mémoires de l'Amérique*, vol. ii.; and also in the editions of 1709 and 1713. A facsimile of the 1703 map is given in the *Nar. and Crit. Hist. of America*, iv. p. 260.

— A. D. 1709.

The *Carte générale de Canada* in the La Haye ed. (1709) of La Hontan, which was repeated in his *Mémoires*, (1741), vol. iii. It is given in sections in the *Nar. and Crit. Hist. of America*, iv. pp. 153, 258, 259. His map of the "Rivière Longue," in the *Nouveaux Voyages*, (1709), vol. i. p. 136, is reproduced in the *Nar. and Crit. Hist. America*, iv. p. 261.

VI.

EAST COAST OF NORTH AMERICA.

. The enumeration of this section may be supplemented by those in Sections II. and III.

— A. D. 1500-1541.

The delineations of the east coast begin with La Cosa's map (1500), and may be traced through the maps of Cantino (1502), Ruysch (1508), the Nordenskiöld gores (15—?), Stobnicza (1512), the Admiral's map (1513), the Schöner globes (1515, 1520), Reisch (1515), the Tross gores (1514-19?), the map of Apian (1520), Ptolemy (1522), Maiollo (1527), Verrazano (1529), Frisius (1525), Monk Franciscus (1526), Thorne (1527), the Spanish official maps (1527-1529), the map of the Sloane MS. (1530), globe of Finæus (1531), the Lenox woodcut (1534), the map of Agnese (1536), the Charles V. portulano (1539), the Nancy globe (1540?) the map of Münster in the Ptolemy of 1540, the Mercator gores of 1541, etc.

These are but typical specimens to show the constancy or variations of types among the cartographers of the time, and they have all been described on earlier pages.

A reconstruction of the Chaves map of 1536 (now lost) is attempted by De Costa in the *N. E. Hist. Gener. Reg.* April, 1885.

181. A. D. 1542. From Cape Breton to Florida, by Rotz.

From Rotz's *Boke of Idrography*, preserved in the British Museum. The Spanish names on the coast are corrupted. Across the Gulf of Maine is the legend, "The new fonde Londe quhaz men goeth a fishing." Kohl thinks it perhaps the earliest map in which buffaloes are depicted in the inner parts of the Continent. Cf. *Catalogue of MSS. in the British Museum* (1844), i. p. 23. The present is no. 17 of the atlas. Malte Brun, *Hist. de la Géog.* ed. by Huot, i. 631; *Nar. and Crit. Hist. America*, iv. 82, and for outlines of parts of Rotz's maps, p. 83. See *ante* under no. 55.

— A. D. 1542.

The Ulpius globe. See *ante* under no. 55, and in *Nar. and Crit. Hist. America*, iv. p. 42.

— A. D. 1543.

The map of Baptista Agnese. See under no. 56, *ante*.

— A. D. 1544.

The Cabot mappemonde. See under no. 56, *ante*. The eastern coast is given in the *Nar. and Crit. Hist. America*, iii. 22.

The sketch maps of the northeastern coasts, by Allefonse, are delineated in the *Nar. and Crit. Hist. America*, iv. pp. 74-77.

— A. D. 1545.

Münster's map, which was re-engraved in the Ptolemy of 1552. It is sketched in the *Nar. and Crit. Hist. America*, iv. 84.

— A. D. 1545.

The map in Medina's *Arte de navegar*, which is reproduced in the *Narrative and Crit. Hist. America*, vol. viii.

— A. D. 1546.

The so-called Henri II. map, of which the east coast is sketched in the *Nar. and Crit. Hist. America*, iii. 195, and the map of Johannes Freire, of which sketches are given in *Ibid.* iv. pp. 85, 86. Cf. in this history, iv. pp. 81-102, a section on "The Cartography of the northeast coast of North America, 1535-1600."

— A. D. 1547.

The Nicolas Vallard map, of which a portion is given in the *Nar. and Crit. Hist. America*, iv. 87.

— A. D. 1548.

The maps in the Ptolemy of 1548. See *ante*, under no. 58. The "Carta marina" is given in facsimile in the *Nar. and Crit. Hist. of America*, vol. viii.

— A. D. 1550.

Gastaldi's map in Ramusio, put about this date. There are facsimiles in the *Nar. and Crit. Hist. America*, iv. 91, and in Weise's *Discoveries of America*, p. 356.

See the maps belonging to the Riccardi palace, referred to *ante*, no. 93. The *Studi biog. e bibliog. soc. Ital. geog.* ii. 451, 452, mentions Portuguese atlases of the middle of this century preserved in the Bibliotheca Riccardiana, and in the Royal Library at Florence, which contain charts of the east coast of North America.

— A. D. 155—.

A MS. map which belonged to Jomard, a sketch of which is given in the *Nar. and Crit. Hist. of America*, iv. 88.

182. A. D. 155-(?) From the Mississippi(?) River to 45° N.

A river "Rio de Flores" is apparently the Mississippi. The country is called "Terra del licencia dos Aulloh,"—thought by Kohl to be a corruption of Ayllon's name, of whose explorations the map is probably a record. It is from a MS. atlas (1556-1566) in the British Museum. A man, like a Chinaman, and an elephant are depicted in the interior.

183. A. D. 155-(?). From Nova Scotia to Texas.

From a MS. atlas in the Douce collection in the Bodleian library. Texas is called "Topira." The country north of the Gulf of Mexico is called "Galiguza." The general name of the continent is "Florida." A lion asleep is depicted in the interior.

— A. D. 155-(?)

A map of Martines in an atlas in the British Museum, ascribed to Martines. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 450. See *ante*, no. 63.

— A. D. 1554.

The Bellerio map (see *ante*, no. 64), of which a facsimile is given in the *Nar. and Crit. Hist. America*, vol. viii.

Baptista Agnese's atlas of 1554 also shows the east coast in several maps.

— A. D. 1556.

The map of the two Americas in Ramusio shows the east coast of North America. It is in facsimile in the *Nar. and Crit. Hist. America*, ii. 228. Cf. *ante*, no. 66.

The map of Vopellio mentioned under no. 66, *ante*. There is a facsimile of it in the *Nar. and Crit. Hist. America*, ii. p. 436.

— A. D. 1558.

In the atlas of Diego Homem in the British Museum. There is a sketch in the *Nar. and Crit. Hist. America*, iv. 92, and in H. H. Bancroft's *North-west Coast*, i. 50. See *ante*, no. 67.

— A. D. 1561.

Ruscelli's "Tierra Nueva" in the Ptolemy of 1561. See *ante*, under no. 69, and a sketch and references in the *Nar. and Crit. Hist. America*, iv. 92.

184. A. D. 1562. From Cape Breton to Florida, by D. Gutierrez.

From an engraved map, *America sive quarta orbis partis nova et exactissima descriptio. Auctore Diego Gutierro, Philippus regis Hisp. cosmographo. Hieron. Cock excud.* 1562. If the "Ba. de S. Maria" is our Chesapeake, the "R. Salado" (Salt river) and "R. de S. Spirito" are relics of early Spanish visits to the Potomac region. The coast further north is as confused in outline and names, as usual, for this period.

185. A. D. 1565. Florida, etc., by Lemoyne.

This extends from the South Carolina to the Alabama coast, and the original is an engraved map in the *Brevis Narratio*, describing Laudonnière's expedition, as published in 1591 by De Bry. The Spanish names on the Carolina coast indicate that Lemoyne used Spanish drafts of that coast. A trace of the sea of Verrazano is seen at the north.

The map is reproduced in Gaffarel's *Floride Française*, in Shipp's *De Soto and Florida*, and in part in the *Nar. and Crit. Hist. America*, ii. 274.

— A. D. 1566.

The map of Nicholas des Liens in the Bibliothèque Nationale at Paris. It shows the coast from Labrador to Venezuela. It is sketched in the *Nar. and Crit. Hist. America*, iv. 79.

— A. D. 1566.

Zaltieri's map. See *ante*, under no. 69. There is a facsimile in the *Nar. and Crit. Hist. America*, ii. p. 451.

— A. D. 1568.

The map of Diegus in the Royal Library at Dresden shows the east coast.

— A. D. 1569.

The great Mercator map. The east coast is shown in the sketch in the *Nar. and Crit. Hist. America*, iv. 94 (also in ii. p. 452); and in a facsimile, *Ibid.* iv. p. 373, and also in Weise's *Discoveries of America*, p. 360, and in his *Hist. of Albany*, p. 4. See *ante*, under no. 71.

— A. D. 1570.

Ortelius's map of America. A sketch of the east coast is given in the *Nar. and Crit. Hist. America*, iv. 95. Cf. *ante*, no. 72. The map was repeated in later editions, 1575, 1584; re-engraved, 1587, etc.

— A. D. 1572.

Porcacchi's map, of which the east coast is shown in the sketch given in the *Nar. and Crit. Hist. America*, iv. 96. Cf. *ante*, under no. 72. Repeated in 1576, etc.

— A. D. 1573.

A Spanish mappemonde, given by Lelewel, i. pl. 7, shows the east coast.

— A. D. 1574.

Two maps of this date in *Theatri Orbis terrarum enchiridion* (1585) of Philippus Gallæus "per Hugonem Favolium illustratum," show the east coast.

186. A. D. 1578. From Florida to 45° N., by Martines.

From a MS. atlas (no. 15) in the British Museum. Kohl remarks on its inferiority to Ribero's map (1529), and says that the Spanish maps degenerated for a long time after Ribero. The country is called "La Florida." See sketch in *Nar. and Crit. Hist. America*, ii. 229.

187. A. D. 1578. East Coast by Martines.

A very inaccurate sketch of the coast from Labrador to the Gulf of Mexico, in which the peninsula of Florida and the gulf of St. Lawrence are only recognizable. The original belongs to a MS. atlas by Joan Martines in the British Museum. The main is called "Nova Spagna." The St. Lawrence river and the Hudson seem to unite and form a channel, making New England an island. There is a sketch of it in the *Nar. and Crit. Hist. America*, iv. 97.

188. A. D. 1578. The same.

A rough sketch.

— A. D. 1580.

The map of John Dee, in the British Museum. Cf. *ante*, no. 96.

— A. D. 1582.

Lok's map, which appeared in Hakluyt's *Divers Voyages*, and is reproduced in Winter Jones's edition of that book, and in the *Nar. and Crit. Hist. America*, iii. 40 and iv. 44, and in Weise's *Discoveries of America*, p. 7.

The map of the Mercator type in Popellinière's *Trois mondes* shows the east coast.

— A. D. 1585.

John White's map of the coast from the Chesapeake to the gulf of Mexico, preserved among the De Bry drawings in the British Museum, and first engraved for Dr. Edward Eggleston's paper in the *Century Magazine*, November, 1882. A sketch of it is given in the *Nar. and Crit. Hist. America*, iv. 45.

— A. D. 1587.

The map in Hakluyt's edition of Peter Martyr. Cf. *ante*, under no. 79.

The map (1587) in Johannes Myritius' *Opusculum Geographicum*, Ingolstadt, 1590.

189. A. D. 1590. Old Virginia by John White.

This shows Chesapeake bay and the North Carolina coast. This is the map by De Bry attached to the *Admiranda Narratio*, descriptive of the experiences of Raleigh's company in 1585. The map is inscribed, "autore Joanne With; sculptore Theodoro De Bry." Kohl believes With to be the same as Gov. White of that colony. Parts of the map are supposed to have been drawn from Ralph Lane's notes. There is a heliotype of it in the *Nar. and Crit. Hist. America*, iii. 124. Other facsimiles are given in the histories of North Carolina by Hawks and by Wheeler, and in Gay's *Popular Hist. of the United States*, i. 243.

The "Ould Virginia," in Smith's *Generall Historie* closely resembles this map, adding however the entrance to the Chesapeake at the north.

190. A. D. 1590. The same.

A rough sketch.

191. A. D. 1590. Roanoke Island and Albemarle Sound, by White.

The original of this is in the engraved series of White's drawings, published by De Bry. It is marked "The arrival of the Englishmen in Virginia" [1584]. See *post*, no. 202.

192. A. D. 1580. East Coast by F. Simon.

From Cape Breton to the Carolina coast. A sketch without annotation by Kohl.

193. A. D. 1592. East Coast from Molineaux's Globe.

From Florida to the St. Lawrence. The original globe is in the Middle Temple, London. Kohl calls it a curious mixture of Spanish and English sources. About Nova Scotia there are traces of a Portuguese nomenclature. Cf. sketch in *Nar. and Crit. Hist. America*, iii. 213.

— A. D. 1592.

Hood's map, reproduced in Kunstmann's *Atlas*, and the east coast sketched in the *Nar. and Crit. Hist. America*, iii. 197, with references, p. 196.

— A. D. 1593.

The map in the *Speculum Orbis Terrarum* of Cornelius de Judæis. It is sketched in the *Nar. and Crit. Hist. America*, iv. 97.

The map of the Mercator type in Maffei's *Historiarum Indicarum libri XVI*.

— A. D. 1594.

The map (1594) of Plancius in the Amsterdam edition of Linschoten, 1596. It was re-engraved in the Latin Linschoten (Hague, 1599).

— A. D. 1596.

De Bry's map. It is sketched in the *Nar. and Crit. Hist. America*, iv. 99.

194. A. D. 1597. East Coast by Wytfliet.

From Cape Breton to South Carolina. The original is an engraved map in Wytfliet's *Descriptionis Ptolemaicae Augmentum*, published in 1597. Kohl thinks it shows the earliest attempt at tracing the Alleghany Mountains. The parts of the coast above North Carolina are difficult to identify beyond a question.

Wytfliet's map of the coast of New Brunswick and Labrador is given in facsimile in the *Nar. and Crit. Hist. America*, iv. 100, and of Florida and Carolina coasts in *Ibid.* ii. 281, and his map of America, in *Ibid.* ii. p. 459.

— A. D. 1597.

The maps in the Ptolemies of this year (nos. 2, 29, 34, 35), published at Arnheim and Cologne, being the same edition.

— A. D. 1598.

The maps in the Basle edition of Münster's *Cosmographia*, and in the English (Wolfe's) edition of Linschoten.

— A. D. 1600.

The map of Quadus. See *ante*, no. 99.

The map of Molineaux, which was reproduced by the Hakluyt Society in 1880, and of which a sketch of the east coast can be found in the *Nar. and Crit. Hist. America*, iii. 216, iv. 377.

The map in Metullus's *America*, based on Wytfliet.

The map by Jodocus Hondius of about this time, which is reproduced in the Hakluyt Society's edition of Drake's *World Encompassed*.

— A. D. 1601.

The map in Herrera's *Descripcion de las Indias*.

— A. D. 1603.

A map by Botero in his *Relaciones*, of which a sketch of a part of the east coast is given in the *Nar. and Crit. Hist. America*, iv. 378.

— A. D. 1606.

The map in Cespedes' *Regimiento de Navegacion* (Madrid, 1606).

195. A. D. 1606. Champlain's Map of Chatham Harbor, Cape Cod.

This is taken from the 1613 edition of Champlain; and is reproduced in the Quebec and Boston editions of Champlain.

196. A. D. 1606. Champlain's Map of Gloucester Harbor, Cape Ann.

This is taken from the 1613 edition of Champlain; and is reproduced in the Boston and Quebec editions of Champlain.

197. A. D. 1606. Champlain's Map of St. Croix Island.

This is taken from the 1613 edition of Champlain. It is reproduced in the *Nar. and Crit. Hist. America*, iv. 137, as well as in the Boston and Quebec editions of Champlain.

— A. D. 1606.

Champlain's map of the harbor of Plymouth, Mass. It is reproduced from the 1613 edition, in the Quebec and Boston editions of Champlain, in the *Mag. of Amer. History*, in the *Nar. and Crit. Hist. America*, iv. 109, and in W. T. Davis's *Anc. Landmarks of Plymouth*, 35.

— A. D. 1609.

Lescarbot's map. Cf. *ante*, no. 165, and facsimile in *Nar. and Crit. Hist. America*, iv. 152, with another in the *Memorial Hist. of Boston*, i. p. 49. The same map reappeared in the editions of Lescarbot in 1611 and 1612, and in the English edition, called *Nova Francia*, in 1609. There are other facsimiles of the map in Tross's reprint of Lescarbot, in Faillon's *Colonie Française*, i. 85, and in the *Popham Memorial*.

Also his map of Annapolis Basin, Nova Scotia, reproduced in the *Nar. and Crit. Hist. America*, iv. 140, together with Champlain's (p. 141) of the same.

— A. D. 1610.

A rude map of the coast of New England and Acadia in the Poore Collection of French Documents in the State House, Boston; sketched in the *Nar. and Crit. Hist. America*, iv. 143.

— A. D. 1612-13.

The coasts of Labrador, Acadia, and New England are shown in Champlain's two general maps of 1612 and 1613, which, beside being reproduced in the Boston and Quebec editions of his *Works* and *Œuvres*, are given also in facsimile, with references, in the *Nar. and Crit. Hist. America*, iv. pp. 380, 381, 382.

— A. D. 1613.

The map in connection with De Quir's narrative in the *Detectionis Freti*, etc. Amsterdam, 1613.

The map of the new world in the Hondius-Mercator *Atlas* of 1613, and the special maps of Virginia and Florida.

The western hemisphere by Michael Mercator in the same.

The map of Johannes Oliva in the British Museum.

198. A. D. 1614. John Smith's New England.

Kohl followed the map in the *Generall History*, 1632. The map first appeared in his *Description of New England* (London, 1616). The same plate, successively changed or added to was used in later issues associated with Smith's name, and a collation of the map in all these issues shows that copies of it exist in at least ten different states of the plate. These are all indicated in the *Memorial Hist. of Boston*, i. p. 52, whence the detailed statement in Arber's edition of Smith is copied. The map was copied by Hulsius in 1617, was used several times by him, and one state or another of Smith's plate has been repeatedly reproduced in later days, as described in the *Mem. Hist. Boston*, to whose enumeration may be added the facsimile in the volumes of

The English Scholars' Library, edited by Edward Arber (London, 1884), entitled *Capt. John Smith: Works*; and the map called *Nouvelle Angleterre exactement décrite par le Capitaine Jean Smith dans les deux voyages faits en 1614 et 1615*, published at Leyden in 1780.

199. A. D. 1616. New Netherland.

This shows the coast from below Chesapeake Bay to beyond the Penobscot, and is the so-called "Figurative map," discovered in Holland by Brodhead. Portions of this map are shown in the *Nar. and Crit. Hist. of America*, iv. 433; Cassell's *United States*, i. 247; *Mem. Hist. Boston*, i. p. 57. The whole map is given in *Doc. relative to the Colonial Hist. of N. Y.* i. 13, and in O'Callaghan's *New Netherland*. See the section on early maps of New England in the *Nar. and Crit. Hist. America*, iii. p. 381.

200. A. D. 1618. Lescarbot's Florida.

From upper Florida to Port Royal. Taken from the plate in the 1618 edition of his *Nouvelle France*. Kohl says some of his errors respecting the region about St. Augustine were copied by De Laet (see *post*, no. 203). The "Rivière de May" is made to flow to the sea from a "Grand lac" in the interior. Lescarbot professes to have marked not a thirtieth part of the Indian villages, while he names those which he gives after their chiefs.

201. A. D. 1621. A. Jacobsz' Americæ Septentrionalis pars.

This is the engraved facsimile of a printed map in Dr. E. B. O'Callaghan's *Documents relating to the Colonial History of New York*, given as "from the West-Indische Paskaert, beschreven door A. Jacobsz [1621]," published at Amsterdam. It shows the coast from Labrador to the island of Trinidad, with the Central American coast on the Pacific side.

There is a sketch of a part of the east coast in the *Nar. and Crit. Hist. America*, iv. 383, and facsimiles are in Valentine's *New York City Manual*, 1858, and in the *Penn. Archives*, 2d ser. vol. v.

202. A. D. 1622. Roanoke by Strachey.

Though thus marked differently, this is the same map as no. 191.

— A. D. 1622.

The maps of the two Americas in Kasper von Baerle's edition of Herrera.

— A. D. 1624.

The map of the New England and Nova Scotia coasts, which appeared in Alexander's *Encouragement to Colonies*, was reproduced in Purchas's *Pilgrims*, iv. p. 1872, and is given in facsimile in the *Nar. and Crit. Hist. of America*, iii. 306.

203. A. D. 1625. Florida by De Laet.

This is from the original edition of De Laet in 1625, and includes the country from Virginia to the Mississippi. It was repeated in later editions, and is called "Florida et regiones vicinæ." The inland geography is based on De Soto's journey. The Mississippi is a bay, "Bahia del Spiritu Santo," fed by many streams. For Florida (peninsula) he seems to have depended on the accounts of Menendez, and for South Carolina on Lescarbot (see *ante*, no. 200). An interior lake (Lacus Magnus) may have grown

from some rumor, Kohl thinks, of Lake Erie, but it was in the Lescarbot's map in 1618. A facsimile of the North Carolina coast is given in the *Nar. and Crit. Hist. America*, iii. p. 125.

— A. D. 1625.

Brigg's map in Purchas's *Pilgrims*, iii. See *ante*, no. 167.

The map of Virginia and Florida in *Ibid.* iii. 869 (after Hondius).

— A. D. 1626.

The map of this date in Speed's *Prospect*, London, 1676.

204. A. D. 1630. From Carolina to Nova Scotia by De Laet.

This is the "Nova Anglia, Novum Belgium et Virginia" of De Laet's *Novus Orbis* of 1630. It seems to combine the results of the French, Dutch, and English explorations, and names in the corresponding languages appear along the coast. The Delaware rises in a large lake, which Kohl thinks may have been intended for Lake Ontario. The "Grand Lac" at the north would indicate some knowledge of Champlain's discoveries. Smith's map of Chesapeake bay and White's map of Virginia are followed in part. Portions are given in facsimile in the *Nar. and Crit. Hist. America*, iii. 125, iv. 436. Cf. sketch of De Laet's "Nova Francia et regiones adjacentes," in the *Nar. and Crit. Hist. America*, iv. 384.

— A. D. 1632.

Champlain's great map. See *ante*, no. 170.

205. A. D. 1634. William Wood's New England.

It shows the coast from York (Me.), to Narragansett Bay. This is the "South Part of New England as it is planted this yeare, 1634," belonging to Wood's *New England's Prospect*, London, 1634.

There are facsimiles in the *Mem. Hist. Boston*, i. p. 524; Palfrey's *New England*, i. p. 360; Young's *Chronicles of Mass.* 389, and separately reproduced by Wm. B. Fowle in 1846.

— A. D. 1634.

A MS. map of the Massachusetts Bay Colony of about this year, made apparently by Gov. Winthrop, found among the Sloane MSS. in the British Museum in 1884 by Henry F. Waters. A full size photographic facsimile was made for the Boston Public Library; a smaller, but less defective one, was made for the *Nar. and Crit. Hist. America*, vol. iii.

206. A. D. 1635. Maryland.

This is the "Nova Terræ-Mariæ tabula" which appeared in *The Relation of Maryland*, London, 1635. Smith's map is followed in the main for Chesapeake bay, with some details omitted, and others added. The names on the Potomac are those given by Lord Baltimore's colony, not by Smith. Cf. reproduction in the *Nar. and Crit. Hist. America*, iii. 525. It was followed in Ogilby's *America* (London, 1671). See *post*, under 1670-73.

— A. D. 1635.

The map "Nova Belgica et Anglia Nova" in the *Nieuwe Atlas* of Blaeu, Amsterdam, 1635, which was largely followed by Dudley.

The map "Partie méridionale de la Virginie et de Floride," published by Vander Aa.

— A. D. 1636.

The maps in the English edition of the *Mercator-Hondius Atlas*, translated by Henry Hexham, and printed at Amsterdam in 1636. Beside the general maps in vols. i. and ii., there are in vol. ii. special maps of Virginia, apparently following Smith; of the coast from the Chesapeake to Texas; while the map "Nova Anglia, Novum Belgium et Virginia" shows the coast from Nova Scotia to Carolina. The New England part is a mixture of Smith's draft and the Dutch maps. The Delaware rises in a large lake, which is connected by another stream with the Hudson.

207. A. D. 1638. New England, New Netherland, and Virginia by J. Jansson.

This closely resembles no. 204, and covers the same territory.

— A. D. 1646.

Maps by Petrus Kaerius, dated 1646, in Speed's *Prospect*, London, 1668. See *post*, under 1651.

— A. D. 1646.

Dudley's maps of the east coast in his *Arcano del Mare* are sketched in the *Nar. and Crit. Hist. America*, iii. 303, iv. 385. One of them was re-engraved in the *Documentary Hist. of N. Y.*

His *Arcano* contains the following special charts:

1. Gulf of St. Lawrence and adjacent parts (see *ante*, under no. 172).

2. The coast from Monhegan to Cape May.

3. The coast from Cape May to Florida.

4. Chesapeake Bay and the North Carolina sounds.

— A. D. 1650.

A map of the New England coast, of which a drawing is in the *Mass. Archives, Docs. Collected in France*, ii. 61, and a sketch in the *Nar. and Crit. Hist. of America*, iii. 382.

— A. D. 1651.

Map of this date in Speed's *Prospect*, London, 1676. See *ante*, under 1646.

— A. D. 1651.

Visscher's map of Delaware Bay, in Campanius, which is reproduced in Egle's *Pennsylvania*, 43, and in the *Nar. and Crit. Hist. America*, iv. 467.

— A. D. 1651.

The curiously distorted *Mapp of Virginia*, showing the coast from New England to North Carolina, by "Domina Virginia Farrer," published in London 1651, and reproduced in the *Nar. and Crit. Hist. America*, iii. 465. Cf. *Mass. Hist. Soc. Proc.* xx. 102.

— A. D. 1651.

Map of the Chesapeake based on John Smith's, in *Atlas Minor* published by Jansson at Amsterdam, vol. ii. p. 389.

— A. D. 1652.

The general maps of America by C. F. Visscher (autore N. I. Piscator), with the special map of New Netherland, which is reproduced by Asher. Cf. maps under no. 100, *ante*.

208. A. D. 1654. Lindström's New Sweden.

This is a map of the Delaware River and Bay, made by a Swedish engineer. It is given in the *Nar. and Crit. Hist. America*, iv. 481; *Nouv. Annales des Voyages*, Mars, 1843; *Penna. Hist. Soc. Memoirs*, iii.; Gay's *Pop. Hist. United States*, ii. 154.

The MS. map of Lindström was on a much larger scale, and this has been engraved in Reynold's edition of Acrelius.

— A. D. 1654.

A Pascaert published at Amsterdam has these maps of the coast:

No. 13. From Labrador to the Chesapeake.

No. 14. From Delaware Bay to Trinidad.

No. 15. From Nova Scotia to Carolina.

209. A. D. 1656. Vanderdonck's New Netherland.

From the Delaware to beyond the Connecticut, with the valley of the Hudson. It accompanied Adrian Vanderdonck's *Beschrijvinge van Nieuw Nederland*, Amsterdam, 1656, and there is a heliotype of it in the *Nar. and Crit. Hist. America*, iv. 438, and facsimiles are in various other places there enumerated, as well as in Weise's *Hist. of Albany*, 47.

210. A. D. 1656. Sanson's Canada.

Shows the coast from Labrador to the Chesapeake. This is a preliminary sketch. Cf. *ante*, under no. 172. It is partly sketched in the *Nar. and Crit. Hist. America*, iii. 456; iv. 391.

— A. D. 1659.

Map in Petavius's (Petau's) *History of the World*.

The coast charts in Doncker's *Zee-Atlas*, repeated in later editions.

The "Novi Belgii, novæque Angliæ necnon Partis Virginæ tabulæ" of N. L. Visscher, published at Amsterdam, 1659.

— A. D. 1660.

The map in Creuxius's *Historia Canadensis* shows the east coast. See *ante*, no. 173. This map is given in facsimile in Shea's *Mississippi*, p. 50, in the *Nar. and Crit. Hist. America*, iv. p. 389, and in Martin's transl. of Bressani's *Relation*.

— A. D. 1661.

The "Pascaerte van Nieu Nederland" in Van Loon's *Atlas* (no. 46), and the coast north of Boston in no. 45.

— A. D. 1662.

A map of the Carolina coast, as explored by William Hilton and drafted by William Shapley. A facsimile of the original in the British Museum is given in the *Mass. Hist. Soc. Proceedings*, December, 1883, p. 402, and a sketch in the *Nar. and Crit. Hist. America*, vol. v.

— A. D. 1662.

Map of the New England and New Netherland coast in the Blaeu Atlas, in the volume called *America, pars quinta*. It was repeated in the edition of 1685. There is a sketch in the *Nar. and Crit. Hist. America*, iv. 391.

— A. D. 1663.

The map of the new world of this date used in Heylin's *Cosmographie*, 1666, 1674, 1677.

— A. D. 1663.

A MS. map of the coast of Acadia, of which a copy is preserved in the Poore collection in the Mass. Archives, and is sketched in the *Nar. and Crit. Hist. America*, iv. 148.

— A. D. 1666.

A map of "De Noord Rivier" published at Middleburgh, and also in Goos's *Zee-Atlas*, shows the coast about New York harbor. It is reproduced in the Lenox edition of the *Vertoogh and Breeden Raedt* and in the *Nar. and Crit. Hist. America*, iv. 440.

— A. D. 1666.

A map of the Carolina coast appended to *A brief Description of the Province of Carolina*, London, 1666. The map is reproduced in Hawks's *North Carolina*, and in Gay's *Pop. Hist. United States*, ii. 285.

— A. D. 1669.

The map "Amérique Septentrionale" of G. Sanson.

— A. D. 1670.

The map of the Carolina region given in John Lederer's *Discoveries*, London, 1672. There is a sketch of it in Hawks's *North Carolina*, and a facsimile in the *Nar. and Crit. Hist. America*, vol. v.

— A. D. 1670-73.

The maps in Montanus, Dapper, and Ogilby at this time were mainly from the same plates, but there were exceptions:

1. *De nieuwe en onbekende Weereld door Arnold Montanus*, Amsterdam, 1671. The map of America is marked "per Gerardum a Schagen," and represents the great lakes beyond Ontario merged into one. Some copies are dated 1670.

2. *Die unbekante Neue Welt . . . durch Dr. O. D. (i. e. Olfert Dapper)*; the name of Montanus, from whom it is a translation, not appearing. It is published by the same Jacob von Meurs as no. 1, but omits the dedication to the Prince of Nassau, and has a different "privilegium" and a "Vorrede an den Leser," not in no. 1. It has the same map of America, but it is newly engraved, with different vignettes, and is marked "per Jacobum Meursium."

3. *America, being an accurate description of the New World*, London, 1670. This is mainly a translation of Montanus by John Ogilby, and notwithstanding the date (1670) in the title, there is a reference on p. 211 to the "present year, 1671." Most of the maps and engravings are from the plates used in nos. 1 and 2; but the map of America is an entirely different one, marked "per Johannem Ogilvium . . . F. Lamb, sculp." A part of this map is given in facsimile in the *Nar. and Crit. Hist.*

America, iv. 393. There is an extra map of the Chesapeake, of English make, beside the one taken from Montanus, and also English maps of Jamaica and Barbadoes, not in Montanus.

4. *America; being the latest and most accurate description of the New World*. This is made up of the same sheets as no. 3, with a new title and an appendix, not in no. 3. The maps of no. 3 are repeated.

The map in Richard Blome's *English Empire in America*, in which he followed Sanson.

Of about this date is a chart of the New England coast with soundings (measuring $5\frac{1}{4} \times 2\frac{3}{4}$ feet), found in 1884 by H. F. Waters in the British Museum.

— A. D. 1675.

A Dutch atlas of Roggerveen, published in several languages, known in English as the *Burning Fen*, contains various coast charts:

No. 1. Cape Breton to South Carolina.

No. 2. Newfoundland to New England.

No. 29. North Carolina, with Chesapeake and Delaware bays.

No. 30. The Delaware Bay, mouth of the Hudson, and Long Island.

No. 31. Narragansett to New York.

There are enumerations of Dutch *Zee-Atlassen* in the *Inventaris der Verzameling Kaarten berustende in het Rijks-Archief*, (s'Gravenhage, 1867), and in P. A. Tiele's *Nederlandsche Bibliographie van Land- en Volkenkunde*, (Amsterdam, 1884).

See *post*, no. 218, for Seller's map of New England.

— A. D. 1676.

The maps of New England and New York, in Speed's *Prospect*, based largely on the Dutch drafts; of Virginia and Maryland, based on Smith; and of the Carolinas.

— A. D. 1677.

The map in Hubbard's *Narrative of the Troubles in New England*, Boston, 1677, and London, 1677, — the latter plate being reproduced in Palfrey's *New England*, iii. p. 155, and in Judge Davis's ed. of Morton's *Memorial*.

— A. D. 1680.

A chart of the coasts of Maine, New Hampshire, Massachusetts, and New Plymouth (measuring $3\frac{1}{2} \times 2\frac{1}{2}$ feet), discovered in the British Museum by H. F. Waters in 1884.

— A. D. 1680.

A map of the New England coast in the French Archives, copied by Mr. Poore in the French documents (*Mass. Archives*), and sketched in the *Nar. and Crit. Hist. America*, iii. 383.

Maps of the New Netherland coast, including New England, much resembling one another, are found dating probably about this time, though the year is usually lacking, respectively assigned to Jansson, Schenck, Visscher, Danckers, Ottens, Allard, Seutter, etc. They are Dutch and German, and were probably occasioned by the temporary success of the Dutch at New Amsterdam in 1673.

211 and 212. A. D. 1682. **Wilson's Carolina**. (Two copies.)

Shows the coast from the Chesapeake to St. Augustine, with a corner map of the Cooper and

Ashley rivers. From a printed map belonging to Samuel Wilson's *Account of the Province of Carolina in America*, London, 1682. The map is called "A new Description of Carolina, by order of the Lords Proprietors." The book throws no light on the origin of the map, but Kohl suspects White's map may have been the basis of the North Carolina part, and Wm. Sayle's surveys have been used for the more southerly parts. Kohl says that the boundary line here given between Carolina and Virginia is the earliest instance of its being laid down in a map. The river May flows from a large "Ashley Lake."

It is also found in Chas. Deane's copy of Ogilby's *America*, and perhaps in other copies.

— A. D. 1683.

Hennepin's *Carte de la Nouvelle France* shows the east coast. See *ante*, under no. 179.

213. A. D. 1684. **Hack's Carolina**.

This map is very nearly identical with nos. 211 and 212, and is signed "Made by William Hack at the signe of Great Britaine and Ireland, near new stairs in Wapping. Anno Domini 1684." The original is a printed map.

— A. D. 1684.

Franquelin's great map shows the east coast. It is sketched in the *Nar. and Crit. Hist. America*, iv. 228. See *ante*, under no. 100.

— A. D. 1685.

The "Nova Belgica et Anglia nova" in Blaeu's *Atlas*. See *ante*, under A. D. 1662.

Minet's *Carte de la Louisiane* shows the east coast. It is sketched in the *Nar. and Crit. Hist. America*, iv. 237.

Map of New England in Seller's *New England Almanac*, of which there is a reproduction in Palfrey's *New England*, iii. 489.

See the map of New England and New York, given in Cassell's *United States*, i. 330, as dated 1684, and engraved by Michault.

— A. D. 1687.

The maps by Morden in Blome's *Present State of his Majesty's Isles and Territories in America*, London, 1687. The map of New England is reproduced in the *Papers concerning the attack on Hatfield and Deerfield*, New York (Bradford Club), 1859; that of Carolina is in the *Nar. and Crit. Hist. America*, vol. v.

— A. D. 1688.

The "Canada" of Coronelli, "Corrigée et augmentée par Tillemont," "partie orientale," published in Paris in 1688, and on a reduced scale in 1689, shows the east coast, after the Dutch drafts.

The map of New England in the Amsterdam editions (1688, 1715) of Blome is different from the one named *ante*, under A. D. 1687. That of 1688 is reproduced in the *Nar. and Crit. Hist. America*, vol. v.

— A. D. 1689.

A MS. map by Raudin in the collection of Mr. S. L. M. Barlow in New York.

— A. D. 1690.

A map of New England and New York, published in London by Thomas Basset about 1690. It has the characteristics of the prevailing Dutch cartography, and twenty-five copies have been reproduced in facsimile for J. Hammond Trumbull.

— A. D. 1691.

The map in Leclercq's *Établissement de la Foy*, which is reproduced in J. G. Shea's translation of that book.

214. A. D. 1696. Cotton Mather's New England.

The "Exact Mapp of New England and New York," contained in Mather's *Magnalia*, London, 1702, in which he speaks of his map under date of 1696. There has been a facsimile made of it. It is also reproduced in Cassell's *United States*, i. pp. 492, 516.

— A. D. 1697.

Hennepin's map in the *Nouvelle Découverte*. Allard's *Mimor Atlas* of about this date contains: "Nova Belgica et Anglia nova," presenting the prevailing Dutch drafts. "Totius Neobelgii nova tabula" gives the coast from the Chesapeake to the Penobscot, with a picture of New York after its recapture (1673). "Nova Virginie tabula," following Smith's map.

— A. D. 1698.

Gabriel Thomas's map of the New Jersey coast and Delaware Bay, which appeared in his *Account of Pennsylvania*, and is reproduced in Cassell's *United States*, i. 282, and in the *Nar. and Crit. Hist. America*, iii. 501.

— A. D. 1700. (?)

Courtenay in the *Charleston Year Book* (1883) places before 1700 "A new map of Carolina," of which he gives a facsimile.

A colored chart of about this date, showing the coasts of New France, New Scotland, and New England (measuring 144 × 144 feet) found by Mr. H. F. Waters in the British Museum in 1884.

215. A. D. 1700. Province of New York.

It shows the country as far north as the Mohawk, from a little distance east of the Connecticut to a meridian west of Perth Amboy. It follows a map in the State Paper Office, London, marked: "A map of the Province of New Yorke in America by Augustin Graham, Surveyor-General," and is dedicated to Lord Bellomont. The last grant on the map is put down as in 1697, and Kohl conjectures the map must have been made about 1700. The grants distinguished are chiefly on the eastern side of the Hudson, and date from 1684 to 1697. It shows also the grant along both sides of the Mohawk River in 1697 to Godfray Delliuss.

216. A. D. 1700. The same.

Another copy, less perfect, and without annotations.

— A. D. 1701-1721.

The maps in John Thornton's *Atlas Maritimus*.

— A. D. 1702.

The map in Campanius. See *ante*, under no. 100, and his more detailed map showing the coast from Maine to the Chesapeake, given also in facsimile in the *Nar. and Crit. Hist. America*, iv. 485.

217. A. D. 1709. Lawson's Carolina.

Shows the coast from Cape Henry to St. Augustine. It is copied from the map in John Lawson's *History of Carolina*, London, 1714. The first edition was in 1709, and the map is repeated in the German translation, Hamburg, 1712, 1722.

— A. D. 1709.

La Hontan's *Carte Générale de Canada* shows the New England and Acadian coast, and this part is given in facsimile in the *Nar. and Crit. Hist. America*, iv. 153.

218. A. D. 1711-? Seller's New England.

Shows the coast from the Kennebec to beyond the Connecticut River. It is called "A mapp of New England by John Seller, hydrographer to the King," and was made not long after 1700, as Kohl thinks. The original, which is more extended, is in Harvard College library, and a text accompanying it seems to be taken from Josselyn's *Two Voyages*. It is certainly not so late as Kohl puts it, since Josselyn's book was printed in 1674, and the map itself is mentioned in the *London Gazette* in 1676, as follows: "There is now extant a map of New England, as is now divided into three great colonies of Plymouth, Massachusetts, and Connecticut, with a printed description by John Seller."

— A. D. 1713.

The rude delineation of the east coast in Joutel's *Journal historique*, Paris, 1713. This map is reproduced in the *Mag. of Amer. Hist.* 1882, p. 185, and in A. P. C. Griffin's *Discovery of the Mississippi*, p. 20.

— A. D. 1718.

Nicolas de Fer's "Partie meridionale de la riviere de Mississippi" shows the Carolina and Florida coasts.

219. A. D. 1720 (?) Carolina.

This follows a MS. map preserved in the British State Paper Office, bearing no date, but evidently made after 1715. On it is marked:

"1. The way Coll. Barnwell marched from Charlestown, 1711, with the forces sent from S. Carol. to the relief of N. Carolina.

"2. The way Coll. J. Moore marched in the 1712 with the forces sent for the relief of North Carolina.

"3. The way Carol. Maurice Moore marched in the year 1713 with recruits from South Carolina.

"4. The way Carol. Maurice Moore went in the year 1715 with the forces sent from North Carolina to the assistance of S. Carolina. This march was farther continued from Fort Moore up Savano river, near a N. W. course, 150 miles to the Charokee Indians, who live among the mountains."

There is a sketch of the map in the *Nar. and Crit. Hist. America*, vol. v.

— A. D. 1722.

The map of "Nouvelle France" in La Potherie, repeated in the 1753 edition.

— A. D. 1728.

The *Atlas maritimus et commercialis* (London) has charts of Delaware and Chesapeake bays, the New England coast, the St. Lawrence gulf, and Boston Harbor.

220. A. D. 1730. Indian Map of South Carolina.

It is marked: "This map describing the situation of the several nations of Indians to the N. W. of South Carolina was copied from a draught, drawn and painted on a deer skin by an Indian cacique, and presented to Francis Nicholson, Esqr, Governour of South Carolina, by whom it is most humbly dedicated to his Royal High. George, Prince of Wales."

This is taken from the original in the British Museum.

— A. D. 1730.

The map by Herman Moll, attached to Davis Humphrey's *Hist. Acc. of the Soc. for propagating the gospel in foreign parts*, London, 1730. It has a marginal map of the South Carolina coast, which is reproduced in the *Nar. and Crit. Hist. America*, vol. v.; which may be compared with the map in Moll's *New Survey*, 1729 (no. 26), which is given in facsimile in Cassell's *United States*, i. 439.

221. A. D. 1733. Popple's Boston Harbor.

See an enumeration of the maps of Boston Harbor in the *Memorial Hist. Boston*, vol. i. ii. and iii.

222. A. D. 1733. Popple's Town and Harbour of Charlestown, S. C.

223. A. D. 1733. Popple's Harbour of St. Augustine.

224. A. D. 1733. Popple's New York and Perth Amboy Harbours.

Nos. 221 to 224 are marginal maps annexed to Popple's great map of *The British Empire in America*, which has 14 other charts of harbors, beside 3 views of towns. It was first issued in 1732, and a reproduction appeared in Amsterdam about 1737. The *Catalogue of the British Museum MSS.*, no. 23,615 (fol. 72), shows a draft by Popple of the English and French possessions, dated 1727.

— A. D. 1738.

The map of America in Keith's *Virginia*.

— A. D. 1741.

Moll's maps in Oldmixon's *British Empire*; also in edition of 1708.

— A. D. 1742.

The *English Pilot*, published at London, has various coast charts:

- Nos. 2. Newfoundland to Hudson's Bay.
3. Labrador to Cape St. Roque.
4. Another covering the same.
5. Newfoundland to Maryland.
6. Casco Bay by Cyprian Southicke (dated London, 1720).

7. Newfoundland coast by Henry Southwood.
13. Cape Breton to New York, with separate plan of Boston Harbor. Cape Cod is pierced at the angle.
14. New York Harbor and vicinity by Mark Tiddeman.
15. Chesapeake and Delaware bays.
16. Lower Chesapeake and the Virginia rivers.
19. Carolina and Charleston Harbor.

— A. D. 1746-1748.

D'Anville's "Amérique Septentrionale" (Paris); but a new draft with improvements was published at Nuremberg in 1756.

— A. D. 1747.

"America" in Bowen's *Complete System of Geography*.

— A. D. 1753.

Robert de Vaugondy's *Carte de Canada*.

— A. D. 1755.

Jeffery's *New Map of Nova Scotia*, etc., showing the coast from Labrador to Boston.

Lewis Evans' map of the *Middle British Colonies*, with improvements by J. Gibson, which is reproduced in Whittlesey's *Cleveland*.

John Huske's *Present State of North America*, 2d ed., London (1755), has a map showing the English claims and French encroachments.

William Douglass' *Summary of the British Settlements in North America*, Boston, reprinted London, has D'Anville's map "improved with the back settlements of Virginia." Cf. Sabin, xii. no. 47,552.

Various other maps were published at this time, occasioned by the controversy between the French and English governments as to the bounds of their respective possessions in America.

— A. D. 1757.

Carte de la Nouvelle Angleterre par M. B.

— A. D. 1764.

Map of North America by M., new ed. by Vaugondy, 1772, reproduced in the French *Encyclopédie*, Supplément, 1777.

— A. D. 1769.

Captain Cluny's map of North America in *The American Traveller*, reproduced in the French *Encyclopédie*, Supplément, 1777.

225. A. D. 1787. Franklin's Gulf-Stream.

It shows the coast from Labrador to Florida, and is endorsed: "This draft of that Stream was obtained from Capt. Folger, one of the Nantucket whalemens, and caused to be engraved on the old chart in London, for the benefit of navigators, by B. Franklin." Kohl calls this the first attempt specially to indicate the Gulf Stream on a chart. The preferable track for sailing from New York to England is pricked on the chart. It is copied from an engraved map in Franklin's *Philosophical and Miscellaneous Papers* (London, 1787).

VII.

THE MISSISSIPPI VALLEY.

. See also the maps in Sections II., III., and VIII.

— A. D. 1500, etc.

The earliest maps show what stands with some for the Gulf of Ganges, and with others for the Gulf of Mexico (as in the Admiral's, *ante*, no. 32, and Reisch's, *ante*, no. 33). They also show in the country north of this gulf, the region ultimately to be developed as the Mississippi Valley. We begin to have a rudimentary river, usually called "Rio de Spiritu Santo" as in the map of the gulf published by Navarrete (*post*, no. 247); and this representation of a great river, flowing into the north part of the gulf, can be traced down through various maps, like that of Cortes in 1524 (*post*, no. 248); of Maiollo in 1527 (*ante*, under no. 39); those of Ribero, 1529 (*ante*, no. 41); Mercator, 1541 (under no. 54); the Ulpius globe, 1542 (under no. 55); the Cabot mappemonde, 1544 (under no. 56); the Medina map of 1545 (no. 59); the map given in the *Nar. and Crit. Hist. America*, ii. p. 292; Beller's of 1554 (no. 64); Vopellio's of 1556 (under no. 66); Homem, 1558 (no. 67); Zaltiere, 1566 (no. 94); Des Liens, 1566 (under no. 69); Dr. Dee's, 1580 (no. 96), and De Bry's, 1596 (cf. *Nar. and Crit. Hist. Amer.*, iv. 99). Maps of the type of Mercator (no. 71), Ortelius, 1570 (no. 72), and Martines (nos. 75, 77) make the water-ways run across the continent.

We find the earliest special treatment of this river, in a kind of parallel network of streams, as shown in Wytfliet's *Florida et Apalche* (no. 264); and Wytfliet's draft is followed in a map of about 1622, *America noviter delineata*, auct. Judoco Hondio, Johannes Janssonius excudit, and in another of 1636, called *Novissima et accuratissima totius Americae descriptio*, per N. Vischer.

Jefferys, in the map in his *Northwest Passage*, 1768, shows the course of the lower Mississippi by a dotted line, professing to engrave the map from the "Herrera of 1608;" but the maps in the early editions of Herrera do not have the dotted line.

226. A. D. 1656. Sanson's Mississippi.

It represents the mouth of the Mississippi as a bay ("Bahia del Espiritu Santo") into which various rivers empty, having their sources in a semi-circular range of mountains, of which one end extends towards the Florida peninsula, and the other is in Texas. The names within this belt of mountains are derived from the accounts of De Soto's march.

Later maps of Sanson follow this draft, as in his *Amerique Septentrionale*, 1669.

227. A. D. 1673 Marquette's Upper Mississippi, showing the portages to Lake Huron.

It follows a sketch preserved in St. Mary's College, Montreal, and is copied from the engraving of it given in French's *Hist. Coll. of Louisiana*, iv. Dr. Shea first brought forward this map, in his *Discovery of the Mississippi*, in 1853; and he used the facsimile which he caused to be made for that book, in his edition of the Jesuit *Relations* of 1673-79; and it has since been reproduced in Douniol's *Mission du Canada* (with a sketch of a cabin on it, which does

not belong to it), Blanchard's *History of the Northwest*, Hurlbut's *Chicago Antiquities*, Andreas' *Chicago*, in the *Report of the U. S. Chief of Engineers*, 1876, vol. iii., and in the *Nar. and Crit. Hist. America*, iv. 220.

228. A. D. 1673. Marquette's Mississippi extended to the gulf.

This follows the map given in Thevenot's *Recueil de Voyages*, Paris, 1681, as Marquette's, but which was the work of the Jesuits. (Cf. HARRISSE, no. 202.) The sketch in the *Nar. and Crit. Hist. America*, iv. 221, is from the Parkman copy of the original map, which has now disappeared from the Bibliothèque Nationale in Paris. Sparks, in his *Life of Marquette*, copies the engraving in Thevenot, whose title differs from that of the Parkman copy. The *Catal. of the Library of Parliament* (Toronto), 1858, shows another copy. It is reproduced in Andreas' *Chicago*, i. 47, and in Breese's *Early Hist. of Illinois*.

— A. D. 1673.

Pays et peuple découverts en 1673 dans la partie septentrionale de l'Amérique par P. Marquette et Joliet, suivant la description qu'ils en ont faite, rectifiée sur diverses observations postérieures de nouveaux mis en jour par Pierre Vander Aa à Leide.

— A. D. 1674.

Joliet's earliest map, *Nouvelle découverte de plusieurs nations dans la Nouvelle France en l'année 1673 et 1674*, showing the whole length of the Mississippi, and published by Gravier in colored facsimile, in an *Étude sur une carte inconnue*, which appeared in the *Mémoires du Congrès des Américanistes*, 1879, and in the *Revue de Géographie*, Feb. 1880. This reduced colored facsimile is given in the *Mag. of Amer. Hist.* 1883, and in A. P. C. Griffin's *Discovery of the Mississippi*; and there are sketches of it in Andreas' *Chicago*, i. p. 49; and in the *Nar. and Crit. Hist. America*, iv. p. 208.

Cf. a map in the Parkman Collection, of which there is a sketch in the *Nar. and Crit. Hist. America*, iv. p. 206.

— A. D. 1674.

Joliet's larger map is supposed to be lost. There is what is called a copy in the Barlow Collection of Maps, belonging to S. L. M. Barlow, Esq., of New York. A sketch of it is given in the *Nar. and Crit. Hist. America*, iv. pp. 212, 213. Cf. HARRISSE, *Notes sur la Nouvelle France*, no. 203. (See *ante*, no. 177.)

— A. D. 1674.

Joliet's smaller map is also in the Barlow Collection, and a sketch from it is given in the *Nar. and Crit. Hist. America*, iv. p. 214. Cf. HARRISSE, no. 204; Parkman's *La Salle*, p. 453.

Cf. for the Ohio valley, no. 3 of the Parkman maps, given in the *Nar. and Crit. Hist. America*, iv. p. 215.

— A. D. 1675.

The "Bahia del Spierto Santo" in Rogeeven's *Burning Fen*, no. 19.

— A. D. 1679-1681.

Harris (nos. 209, 213-218) cites early maps of Franquelin for these years. Parkman attributes to Franquelin a *Carte de l'Amérique septentrionale, . . . avec les nouvelles découvertes de la Rivière Mississippi* ou Colbert (cf. Parkman's *La Salle*, p. 455; Harris, no. 219).

— A. D. 1682.

From a copy of Franquelin's map of this date in the Barlow Collection, a sketch is given in the *Nar. and Crit. Hist. America*, iv. 227. It shows the mouth of the Mississippi, but there is a blank northward from the mouth till the Ohio is reached.

229. A. D. 1682 (?). Franquelin's Mississippi.

After a MS. map in the Dépôt de la Marine at Paris, called "*Carte générale de la France septentrionale . . . Faite par le Sieur Jolliet*." It is dedicated to Colbert. On the margin is "Johannes Ludovicus Franquelin pinxit."

Harris (no. 214) puts this under 1681. It is sketched from the Parkman copy in the *Nar. and Crit. Hist. America*, iv. 218.

230. A. D. 1682. The Mississippi by Hennepin.

It shows the coast from Maine to Texas, and extends to 60° north. It has no annotations, and is marked "Rejected."

231. A. D. 1683. Hennepin's Mississippi.

It shows the coast from Labrador to Texas. This is after the map in the 1683 edition of Hennepin's *Description de la Louisiane*, in which he combined Marquette's travels with his own, and left the lower Mississippi a dotted line. It is called *Carte de la Nouvelle France et de la Louisiane*. It is given in part in facsimile in the *Nar. and Crit. Hist. America*, iv. 249, with references; and the whole map is reproduced in Dr. Shea's edition of Hennepin, and in Winchell's *Final Rept. Geol. Survey of Minnesota*, p. 6. Cf. Harris, no. 352.

— A. D. 1684.

Franquelin's great *Carte de la Louisiane*, of which a sketch is given in the *Nar. and Crit. Hist. America*, iv. 228, from a copy in the Parkman Collection of maps in Harvard College Library. (Cf. Parkman's *La Salle*, pp. 295, 455; Harris, no. 222; Thomassy, *Géologie pratique de la Louisiane*, p. 227.)

Harris (no. 223) refers to a *Carte de l'Amérique septentrionale* of De la Croix, which is assigned also to Franquelin.

— A. D. 1685.

Carte de la Louisiane, by Minet. It is sketched in the *Nar. and Crit. Hist. America*, iv. 237, with references, from a copy in the Barlow Collection (cf. Harris, no. 225).

232. A. D. 1688. The Mississippi by Franquelin.

It is called *Carte manuscrite de l'Amérique septentrionale par J. B. Louis Franquelin, Hydrographe du Roy en Canada. Québec en 1688*. It gives the Mississippi a wide zigzag course, and makes it debouch on the coast of Texas. Kohl has not annotated it.

It has been engraved for E. D. Neill's *History of Minnesota*, 1882; and this engraving is reproduced in the *Nar. and Crit. Hist. America*, iv. 230, 231, and in Winchell's *Final Report of the Geological Survey of Minnesota*, vol. i. pl. 2.

233. A. D. 1688. The Mississippi by Coronelli.

This is from Father Coronelli's published map, *America Settentrionale*, 1688. He seems to have been ignorant of Marquette's discoveries. The Missouri is not indicated. The "Ouabache" is about where the Ohio should be; and the "Ohio" runs parallel with it further south.

A sketch of the map by Coronelli, as corrected by Tilleman, Paris, 1688, is given in the *Nar. and Crit. Hist. America*, iv. 232. It was issued in two parts, — one of the eastern, the other of the western, portions of North America. These two were united in 1689 on a smaller scale.

— A. D. 1688.

Carte des parties les plus occidentales du Canada, par le Père Pierre Raffet, S. J., — a MS. map in the Bibliothèque nationale of Paris, from a copy of which in the Kohl Collection a sketch is given with the marginal inscriptions in the *Nar. and Crit. Hist. America*, iv. 233. There is another copy in the Barlow Collection. Cf. Harris, no. 238.

There is in the Barlow Collection a map, which Harris (*Notes*, etc., p. xxv. and no. 241) believes to be the lost original of a map by Raudin, Frontenac's engineer; and of this a sketch is given in the *Nar. and Crit. Hist. America*, iv. 235.

234. A. D. 1689. Lahontan's Long River.

This fabulous stream is represented as rising in the Rocky Mountains, and flowing into the Mississippi above the Missouri. Kohl thinks the river in question may have been the St. Peter's River. Lahontan professed to copy the western part of the river from an Indian map, made for him in that country.

This map appeared in the *Nouveaux voyages*, La Haye, 1709, vol. i. p. 136, and is reproduced in the *Nar. and Crit. Hist. America*, iv. p. 261.

235. A. D. 1689. Coronelli's Canada ou Nouvelle France.

It shows the coast from the Gulf of St. Lawrence to Texas, and gives the bounds between New France and the English possessions. Kohl thinks the present map a French imitation of no. 233.

— A. D. 1689-1699.

Harris (nos. 231, 232, 240, 248, 259) assigns various other maps to these years.

— A. D. 1691.

The map in Leclercq's *Établissement de la Foy*, which is reproduced in Dr. Shea's translation of that book.

— A. D. 1692.

Hubert Jaillot, who had inherited the plates of Nicolas Sanson, published in Paris what passes as Sanson's *Amérique septentrionale*, — the plate of which was long in use in Amsterdam and elsewhere.

236. A. D. 1698. Hennepin's Mississippi.

This shows the river carried to the gulf. It first appeared in Hennepin's *Nouvelle Découverte*, Utrecht, 1697, which had two distinct maps, showing the Mississippi extending to the gulf.

The first *Carte d'un très grand pais nouvellement découvert*, etc., is reproduced in the *Nar. and Crit. Hist. of America*, iv. pp. 252, 253, and was repeated in the editions of the *Nouvelle Découverte*, printed at Leyden in 1704, and was re-engraved in the English edition, *Discovery of a large, rich, and plentiful country* (London, 1720), with English names.

The second, *Carte d'une très grand pays entre le nouveau Mexique et la mer glaciale*, was used in the later editions of 1698, 1704, 1711, etc., with changes in successive issues, and is reproduced in the *Nar. and Crit. Hist. America*, vol. iv. p. 251, and in Breese's *Early Hist. of Illinois*, p. 98.

237. A. D. 1698. The Mississippi by De Fer.

He follows Coronelli in making the "Ouabache" and "Ohio" parallel streams. Published in Paris in 1698.

— A. D. 1700.

Carte des Environs du Mississippi, envoyée à Paris en 1700. Cf. Thomassy, *Géol. pract. de la Louisiane*, pl. 1.

— A. D. 1701.

De Fer's *Costes aux Environs de la rivière Mississippi*. Cf. Thomassy, p. 201.

— A. D. 1702.

Thomassy (*Géol. pratique de la Louisiane*, p. 209) refers to an original draft by Guillaume Delisle, *Carte de la rivière du Mississippi, dressée sur les mémoires de M. Le Sueur*, 1702, which is preserved in the Archives Scientifiques de la Marine.

— A. D. 1702.

The map in Campanius' *Nya Sverige* gives the lower portions of the river rudely. There is a facsimile in the *Nar. and Crit. Hist. America*, iv. 394.

— A. D. 1703.

Lahontan's *Carte générale de Canada*, which appeared in his *Nouveaux Voyages*, La Haye, 1703, and was repeated in some of the later editions. It was re-engraved in the *Mémoires*, Amsterdam, 1741, vol. iii. It is reproduced, with references, in the *Nar. and Crit. Hist. America*, iv. 258.

— A. D. 1705.

De Fer's *Le Canada ou Nouvelle France*.

— A. D. 1703.

The map of Delisle, showing the route of De Soto, and called *Carte de la Louisiane et du Cours du Mississippi*, published in Paris, and repeated in Garcilasso de la Vega's *Histoire des Incas*, etc., Amsterdam, 1707, and in Delisle's *Atlas Nouveau*, Amsterdam, 1740. It is reproduced in French's *Hist. Collections of Louisiana*, ii. (dated 1707); in Gravier's *La Salle* (1870); in part, in the *Nar. and Crit. Hist. America*, ii. p. 295; in Cassell's *United States*, i. p. 475; in Winchell's *Final Rept. of the Geol. of Minnesota*, i. p. 20. See *post*, no. 238.

— A. D. 1712.

Louisiana am Fluss Mississippi in the German translation of John Lawson's *Carolina*, Hamburg, 1712.

— A. D. 1713.

Carte Nouvelle de la Louisiane et de la rivière de Mississippi . . . dressée par le sieur Joutel, belonging to Joutel's *Journal historique*, Paris, 1713. A part of this map is given in the *Mag. of Amer. Hist.*, 1882, p. 185, and in A. P. C. Griffin's *Discovery of the Mississippi*, p. 20. Cf. Thomassy, *Géologie prac. de la Louisiane*, p. 210.

The English translation of this, *A Journal of the Last Voyage performed by La Salle, etc.*, Paris, 1714, has a map showing the course of the Mississippi. (Cf. *Nar. and Crit. Hist. America*, iv. 240.)

— A. D. 1715.

Herman Moll's *New and Exact Map of the Dominions of the King of Great Britain*, has a lesser map attached, called *Louisiana, with the Indian Settlements and Number of Fighting Men, according to the Account of Capt. T. Nearn*.

— A. D. 1718.

Le Cours du Mississippi ou de Saint-Louis, par N. de Fer, embodying previous information, was made by direction "de la compagnie d'occident."

Partie meridionale de la rivière de Mississippi, par N. de Fer, extends north to the Illinois country.

238. A. D. [1719.] Delisle's Louisiana.

It shows the routes of De Soto and others. It is called *Carte de la Louisiane et du Cours du Mississippi*. It was followed by H. Moll in 1720, and Popple in 1732. Kohl says it is the earliest map to show the word Texas (Los Teijas), and to show the Cumberland and Tennessee Rivers.

Thomassy (*Géol. pratique de la Louisiane*, p. 211) refers to the June, 1718, map of Delisle. See *ante*, under A. D. 1703.

— A. D. 1719-20.

Thomassy gives a *Carte de la Côte de la Louisiane*, preserved in the Archives Scientifiques de la Marine in Paris, based on surveys made at this time by M. De Séigny.

— A. D. 1720.

A new map of Louisiana and the river Mississippi, which appeared in Some Considerations on the Consequences of the French settling Colonies on the Mississippi. London, 1720.

Moll's *New Map of the North Parts of America*, 1720, follows Delisle's of 1718, for the Louisiana portion. It is reproduced in Lindsey's *Unsettled Boundaries of Ontario*, Toronto, 1873.

Gerard van Keulen published at Amsterdam a large map, *Carte de la Nouvelle France, où se voit le Cours des grandes Rivières Mississippi et St. Laurens*, with observations on French fortified posts.

De Beauvillier's *Carte nouvelle de la partie de l'ouest de la province de la Louisiane* (Thomassy, p. 214).

— A. D. 1722.

The "map of Carolana and the river Meschabebe" in Daniel Coxe's *Description of Carolana*, London,

1727, and repeated in later editions. See *post*, no. 239.

— A. D. 1722.

La Potherie's *Carte générale de la Nouvelle France* in his *Hist. de l'Amérique septentrionale*, Paris, 1722, vol. ii., gives the misplacement of the mouths of the Mississippi which originated with La Salle.

— A. D. 1722.

Le Blond de la Tour's *Entrée du Mississippi en 1722*. (Cf. Thomassy, pl. iii.)

— A. D. 1724.

The "Carte de l'Amérique" in Lafitau's *Mœurs des Sauvages Américains*, Paris, 1724, vol. i. 24.

— A. D. 1724.

Plan particulier de l'embouchure du fleuve Saint-Louis, signed by De Pauget, royal engineer.

— A. D. 1726.

A "new map of Louisiana and the river Mississippi" in the *Memoirs of John Ker of Kersland*, London, 1726.

— A. D. 1729.

A map of New France and Louisiana in Herman Moll's *New Survey of the Globe*, no. 27.

— A. D. about 1730.

Amplissima regionis Mississippi seu Provinciae Ludoviciana a Hennepin detecta anno 1687, edita a Jo. Bapt. Homanno, Norimbergae. Has a marginal view of "Catarrhacta ad Niagaram."

Homann was a cartographer of easy conscience, who seldom dated his maps, and this one is little better than a re-engraving of the map in Joutel's *Journal historique*. See *ante*, under A. D. 1713. It was reproduced by Homann's successors in his business, and again by William Darby in his *Geographical Description of Louisiana* (2d ed. 1817), and Thomassy (p. 2) censures Darby for his choice of an early map.

— A. D. 1732.

D'Anville's *Carte de la Louisiane dressée en 1732; publiée en 1752*. The upper part of it is reproduced in Andreas' *Chicago*, i. 59.

— A. D. 1732.

Popple's *British Empire in America* follows Delisle's map (1718) for Louisiana. It was reissued in 1733, 1740, and reproduced at Amsterdam in 1737. Sabin's *Dictionary*, xv. no. 64453.

— A. D. 1732.

Fleuve Saint Louis, ci-devant Mississippi, — a map preserved in the Bibliothèque Nationale, Paris, based upon observations made by Sieur Diron in 1719. (Cf. Thomassy, p. 212.)

— A. D. 1733.

The map in *Some Account of the Design of the Trustees for establishing the Colony of Georgia in America*. It shows the Atlantic Colonies stretching to the Mississippi River.

— A. D. 1737.

Le Cours du fleuve Mississippi, 1737, in Bernard's *Recueil de Voyages au Nord*, Amsterdam, 1737, in connection with Hennepin's narrative.

— A. D. 1740.

A map by Dumont de Montigny, *Carte de la province de la Louisiane, autrefois le Mississippi*, preserved in the *Dépôt de la Marine* at Paris, is said by Thomassy (p. 217) to be more valuable for its historical legends than for its geography.

239. A. D. 1741. Coxe's *Carolina*.

After the map in Daniel Coxe's *Carolina*, London, 1741. Kohl calls it the earliest English map of the Mississippi. Kohl thinks possibly Coxe may have had unknown charts of the delta. He accepts Lahontan's Long River. See *ante*, under A. D. 1722.

— A. D. 1743.

Nicolas Bellin, in Charlevoix's *Nouvelle France*, gives a *Carte de la Louisiane, cours du Mississippi et pays voisins*; and this, with the other maps, is reproduced in Shea's translation of Charlevoix.

Bellin's *Carte des embouchures du fleuve Saint Louis* is based on a draft by Buache (1732), following an original MS. (1731) preserved in the Archives Scientifiques de la Marine. (See *post*, under A. D. 1750.)

240. A. D. 1749. Bonnacamps' *Ohio River*.

After a map in the Ministry of the Marine at Paris, called *Carte d'un voyage, fait dans la Belle Rivière en la Nouvelle France, 1749, par le révérend Père Bonnacamps, Jésuite Mathématicien*. He has marked eight points where he took observations for the latitude, and sundry other places where he buried inscribed lead plates in token of possession for the king.

It also shows the Alleghany River from Lake Chatauga.

— A. D. 1750.

Bellin also has a map of this date, called *Carte de la Louisiane et des pays voisins*. It is said that the maps first published by Bellin were not thought by the French government sufficiently favorable to their claims for boundaries on the English colonies, and he accordingly reissued the maps with changes. When Governor Shirley, speaking with Bellin, referred to this, Bellin is said to have replied, "We in France must obey the king's commands." His map marking these bounds is reproduced in *Bonnechose's Montcalm et le Canada français*, 5th ed., Paris, 1882. (See *ante*, under A. D. 1743.)

— A. D. 1753.

Carte de la Louisiane, in Dumont's *Mémoires historiques de la Louisiane*, vol. i.

— A. D. 1755.

Bellin's *Carte de la Louisiane, 1750; sur de nouvelles observations on a corrigé les lacs et leurs environs*, 1755.

— A. D. 1755.

Canada et Louisiane par le Sieur le Rouge, ingénieur géographe du Roi, with a small map of the Mississippi River.

— A. D. 1755.

D'Anville's *Canada, Louisiane et les terres anglaises*.

— A. D. 1755.

Robert de Vaugondy's *Partie de l'Amérique septentrionale qui comprend le cours de l'Ohio, etc.*

— A. D. 1755.

A New and Accurate Map of North America, contained in John Huske's *Present State of North America*, 2d ed., London, 1755.

— A. D. 1755.

John Mitchell's *Map of the British Colonies in North America*, engraved by Kitchen, published in London, in 1755. Re-engraved at Amsterdam as a *Map of the British and French Dominions in North America*.

— A. D. 1757.

Carte de la Louisiane par l'auteur, 1757 in *Le Page du Pratz's Histoire de la Louisiane*, vol. i. 138.

— A. D. 1760.

Thomas Jefferys included a map of Canada and the northern parts of Louisiana in his *Natural and Civil History of the French Dominion in North and South America*. This same map, with the date 1762, was used in his *Topography of North America and the West Indies*. London, 1768.

— A. D. 1760.

Janvier's *L'Amérique*. It extends from Louisiana to the Pacific.

— A. D. 1762.

Jefferys' *Map of Canada and New France*. There is a facsimile in Mills's *Boundaries of Ontario*.

— A. D. 1764.

La Louisiane in Bellin's *Le Petit Atlas Maritime*, vol. i. no. 40, and *The Mouths of the Mississippi* in nos. 43 and 44.

241. A. D. 1767. Carver's Upper Mississippi.

This follows the map in Jonathan Carver's *Travels*.

— A. D. 1768.

The mouths of the Mississippi and neighboring coasts by Jefferys, in his *General Topography of North America and the West Indies*, which, he says, was taken from several Spanish and French drawings, compared with D'Anville's map of 1752, and with P. Laval's *Voyage à Louisiane*.

242. A. D. 1795. The Upper Missouri and Mississippi by Boulard.

The original is preserved in the Dépôt de la Marine in Paris. It was made for Colonel De Boulogny, of the Sixth Regiment of Louisiana, and taken to France in 1804 by M. Laussat.

243. A. D. 1801. An Indian Map of the Upper Missouri and its Affluents.

The original of this is preserved in the Archives of the Hudson Bay Company in London. Drawn by a Blackfoot chief in 1801, and taken to London by Peter Fidler. The range of the Rocky Mountains is marked, eleven of their peaks named, and the Pacific seacoast is drawn.

244. A. D. 1854. The Sources of the Mississippi River.

This is Schoolcraft's map given in his *Narrative*.

VIII.

THE GULF OF MEXICO AND WEST INDIA ISLANDS, WITH ADJACENT LANDS.

*. There are notices of maps of the mouths of the Mississippi in Section VII.; and the gulf appears in the maps of Sections II. and III.

245. A. D. 1463. Antilia by Benincasa.

This represents an early notion of land to the westward, the antetype of the Antilles. The chart is from a portolano, described in Santarem's *Hist. de la Cosmographie*, i. p. xlii; iii. p. 177. Cf. *ante*, under no. 21, where this map might have been entered, if it had been found in season.

246. A. D. 1500. La Cosa's map.

The western part of the La Cosa chart. Kohl has copied the drawing of it in Ramon de la Sagra's *Cuba* (Paris, 1837). See *ante*, no. 26, and the whole series of maps enumerated in section ii., for the form the gulf took in the earliest cartography, whether as a supposed Gulf of Ganges, as it is conjectured to be in the Admiral's (*ante*, no. 32) and other maps; or as undeveloped in the Cantino (1502), Ruysch (1508), Sylvanus (1511), and Waldseemüller (1513) maps; as vaguely shut in at the north by a land Bimini, shown in the Peter Martyr map of 1511, and in the Weimar map of the Pacific, of 1518 (*post*, no. 316); as an unenclosed archipelago, of which we have instances in the Lenox globe, and in the so-called Da Vinci mappemonde. It gets something like definite though distorted shape in the Stobnicza and Reisch maps, and in the Tross gores. Then in the Nordenskiöld gores, in the Schöner globes of 1515 and 1520, and in the Apian cordiform map of 1520, we have the same distorted shape, but joined with a westerly passage, which detaches South America as an island.

247. A. D. 1520. The Gulf of Mexico.

The map published by Navarrete in his *Coleccion*, iii., is reproduced in the *Nar. and Crit. Hist. America*, ii. p. 218, and in Weise's *Discoveries of America*, p. 278.

This is the earliest special map of the gulf, and the first to delineate it with approximate accuracy; and bears the title, *Trasa de Costas de Tierra-firme y las tierras nuevas*.

Cf. the map of Ayllon's explorations, sketched in the *Nar. and Crit. Hist. America*, ii. p. 285.

248. A. D. 1524. Gulf of Mexico. (Cortes.)

The original engraving of this chart appeared in a letter of Cortes, addressed to the emperor, and

printed at Nuremberg in 1524. Kohl thinks it shows the explorations of Garay, and does not embody any of those of Cortes himself. He says it is the earliest map to show the name Florida. It may have been made about the time of no. 247. It is reproduced in Stevens' *Amer. Bibliographer*, p. 86; in his *Notes, etc.*, pl. iv.; and in the *Nar. and Crit. Hist. America*, ii. p. 404. It has an uncertain passage to the west, by which Yucatan is made an island, of which there is an indication in no. 247, and unmistakable expression in the Maiollo map of 1527 (*ante*, under no. 39), and is suggested in a map by Friess (*post*, no. 371). Later maps, like the Verrazano, 1529 (*ante*, under no. 42); Ribero, 1529 (*ante*, no. 41); the Lenox wood-cut, 1534 (*ante*, no. 47, since reproduced in the *Nar. and Crit. Hist. America*, ii. p. 223); the British Museum map of 1536 (*post*, no. 251), make Yucatan insular, but do not carry the passage to the western sea.

249. A. D. 1528. The Antilles.

Six separate maps of Jamaïqua, Cuba, Spagnola, Guadalupe; Dominica, and Matinina, from the *Isolario* of Bordone. Kohl follows a facsimile made for Henry Stevens (see *post*, no. 372).

— A. D. 1529.

A section of Ribero's map (*ante*, no. 41), showing the gulf, etc., is given in the *Nar. and Crit. Hist. America*, ii. p. 221.

250. A. D. 1534. Hispaniola.

From the engraved map in the 1534 edition (combined) of Peter Martyr and Oviedo. Kohl follows a facsimile given in Stevens' *Amer. Bibliographer*. See no. 256.

251. A. D. 1536. Gulf of Mexico.

From a large MS. map in the British Museum. Kohl says the language of the map is partly French and partly Spanish, the latter much corrupted; so that he infers it to be a French copy of a Spanish original. He thinks it may have grown out of the expedition of Narvaez, and says that the peninsula of Florida is for the first time drawn with approximate accuracy. Yucatan is an island. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 225.

252. A. D. 1542. The Antilles, by Rotz.

One of the maps in Rotz's *Boke of Idrography*, in the British Museum. The map is sketched in the *Nar. and Crit. Hist. America*, ii. p. 226. It is called "The Indis of occident, quhaz the Spaniards doeth occupy." The latitudes are too high by about three degrees in the northern parts, and too low by about two degrees in the southern parts; making the distance from Trinidad to Florida much in excess of what it should be. (See *ante*, no. 55.)

— A. D. 1540-50.

Within this period may be placed the map, *Carta de las Antillas*, of which a facsimile is given in the *Cartas de Indias*, published by the Spanish government in 1877.

The map mentioned by HARRISSE in his *Cabots*, p. 185.

The so-called *Atlas de Philippe II.* (cf. *Nar. and Crit. Hist. of America*, ii. 222). See *ante*, under no. 52.

The 1541 Mercator gores (*Nar. and Crit. Hist. America*, ii. p. 177).

— A. D. 1544.

The gulf and neighboring portions of the Cabot mappemonde of 1544, are sketched in the *Nar. and Crit. Hist. America*, ii. pp. 227, 447.

253. A. D. 1547. Spanish America, by Nio Vallard.

This shows the coast of both oceans, from 35° N. to 10° S. latitude. It is from the MS. atlas in the Sir Thomas Phillipps Collection. Kohl conjectures that the Spanish drafts, apparently used in the making of this map, may have been those brought from the peninsula in 1542 by Don Miguel de Sylva.

Cf. the sketch from a MS. atlas in the Bodleian, given in the *Nar. and Crit. Hist. America*, ii. p. 292.

254. A. D. 1547. The same.

An inaccurate draft.

255. A. D. 1555(?). The Mexican Gulf.

This is a French map, and shows the Atlantic coast, from Maine to Honduras. The corresponding Pacific coast from about the latitude of Mexico (City), is a mere north-and-south line, with conventional river-mouths. Kohl says the original was discovered by Jomard in the possession of a French noble family. To judge from the absence of California one would place the map before (say) 1535; and the absence of traces of De Soto's and other explorations on the Atlantic side would indicate as early a date; but Kohl places it under "about 1555," as that was Jomard's opinion. Kohl is in error in supposing that the presence of Bermuda on the map establishes the date after 1530; since Bermuda is on the Peter Martyr map of 1511, a map unknown to Kohl. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 224.

256. A. D. 1556. Hispaniola. (Ramusio.)

From the engraved map in Ramusio, iii. (1556), who does not say whence he got it. It is reproduced in the *Nar. and Crit. Hist. America*, ii. p. 188, and seems to follow no. 250.

257. A. D. 1558. Spanish America by Diego Homem.

It shows the coasts of both oceans north of the Isthmus of Panama to 33° north latitude. A MS. map in colors in the British Museum. Kohl calls it the earliest general map to embody the California Peninsula. The "Rio del Spirito Santo" (Mississippi) has one main channel. It is sketched in the *Nar. and Crit. Hist. of America*, ii. p. 229.

258. A. D. 1564. Hispaniola by P. Forlano.

The engraved original is marked "In Venetia Paulo Forlano Veronese fec. 1564." It is not so accurate in form as the map of 1534; and it is not known whence Forlano drew his notions. (See *ante*, under no. 69.)

259. A. D. 1564. Cuba by Forlano.

Kohl calls this the oldest special map of Cuba which he had found. He finds names here which are preserved in the Hondius map of Cuba (1607). (See *ante*, under no. 69.)

— A. D. 1566-72.

The maps of Zaltiere (*ante*, no. 94) and Porcacchi (*ante*, no. 95) show how distorted a shape the gulf could assume even at so late a day as this. Cf. *Nar. and Crit. Hist. America*, ii. pp. 451, 453.

260. A. D. 1578. The Antilles by Martines.

It shows the Atlantic coast from 45° north to 3° south latitude. From the Martines Atlas of 1578 in the British Museum. The latitudes are approximately correct; but the longitudes are much out of the way, being stretched east and west too far. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 229.

261-262. A. D. 1597. Central America by Wytfliet.

This is from Wytfliet's Continuation of Ptolemy. See Winsor's *Bibliography of Ptolemy*.

— A. D. 1597.

The *Castilia del Oro* of Wytfliet is given in facsimile in the *Nar. and Crit. Hist. America*, ii. p. 190.

263. A. D. 1597. Mexico by Wytfliet.

From Wytfliet's Continuation of Ptolemy.

264. A. D. 1597. Florida et Apalache of Wytfliet.

From Wytfliet's Continuation of Ptolemy. It is given in facsimile in the *Nar. and Crit. Hist. America*, ii. p. 281.

— A. D. 1597.

Wytfliet's map of Cuba is given in facsimile in the *Nar. and Crit. Hist. of America*, ii. p. 230.

265. A. D. 1601. Mexico and Yucatan by Herrera.

From Herrera's *Descripcion de las Indias* (Madrid, 1601). The map closely agrees with the text of the same book, except that in the map he calls the City of Mexico 91° west long. [from Ferro?], and in the text he gives it as 103° from Toledo.

A portion of it is reproduced in the *Nar. and Crit. Hist. America*, ii. p. 392.

266. A. D. 1601. Antilles by Herrera.

A map which appeared in Herrera's *Descripcion de las Indias*, and considered by Kohl to be the best general map of the West Indies produced up to that time. They are called "Yslas de la mar del Norte."

267. A. D. 1630. Florida by Dudley.

Kohl takes this from Dudley's MSS. preserved in the Munich library, and not from Dudley's *Arcano del Mare*, as published in 1646.

— A. D. 1651.

Maps of New Spain, Cuba, and Hispaniola, in Jansson's *Minor Atlas*, ii. 393, 397.

268. A. D. 1671. Jamaica by Blome.

This is from Blome's *Present State of his Majesty's Isles and Territories in America*, London, 1687. It purports to follow surveys made by order of Sir Thomas Mediford, Bart., late governor of the island.

269. A. D. 1712. Pacific Coast of Mexico.

It covers the space 8° to 17° north latitude. The original was engraved by John Senex, and published in London, after a Spanish map said to have been captured by an English rover, Capt. Woodes Rogers. The engraved map appeared in Capt. Rogers's *A Cruising Voyage around the World*, 1708-11, London, 1712. The Spanish draft may have been made, as Kohl thinks, about 1700. See *post*, under no. 289.

270. A. D. 1767. Northern Mexico by Alzate.

This follows a MS. map in the British Museum, which professed to be drafted by José Antonio Alzate y Ramirez, after the best printed and MS. authorities. It shows the explorations of Father Kino about the Colorado and its affluents, and gives the northern extremity only of the Gulf of California. At the top of the map, under 43°, it shows the "Mar o Bahía del Vest," which Juan de Fuca explored. (See *post*, no. 289.)

271. A. D. 1778. New Mexico by Escalante.

A folded sheet, without annotations.

271^a. A. D. 1795. New Mexico by Juan Lopez.

From a Spanish printed map.

272. A. D. 1852. Anegada by Schomburgk.
(Virgin Islands.)

This follows surveys made by Sir Robert Schomburgk, published in the *Journal of the Royal Geographical Society*, ii. p. 152 (1852).

273. A. D. 1833. The Usumasinta River in Central America.

An engraved map in the Royal Geographical Society's *Journal*, iii. 59 (1833), prepared by Col. Galindo.

274. A. D. 1836. Costa Rica by Col. Galindo.

From the *Journal of the Royal Geog. Society*, vol. vi. (1836).

275. A. D. 1844. River Tabasco by Peter Masters.

From the *Journal of the Royal Geog. Society*, vol. xv. (1845).

276. A. D. 1853. Samana.

The Peninsula and Bay of Samana in the Dominican Republic, by Sir Robert H. Schomburgk, in the *Journal of the Royal Geog. Society*, 1853.

IX.

THE PACIFIC COAST OF NORTH AMERICA.

* See *ante*, sections ii. and iii., and *post*, section x.

— A. D. 1513, etc.

Dr. Kohl printed an abstract of his studies on the cartography of the west coast of North America in the *U. S. Coast Survey Report*, 1855, p. 374, etc.; and there is a MS. on the subject by him in the library of the American Antiquarian Society at Worcester. The fullest information on the subject will be found in H. H. Bancroft's *North West Coast*, vol. i., and in the *Nar. and Crit. Hist. America*, ii. p. 431, etc.

We find the earliest delineations of this coast in 1513 from two sources, — first, from the Portuguese in their efforts to place the Moluccas in relations with the new continent, as shown in (*post*) nos. 315 and 316; and, second, from the maps which show the discovery of Balboa, either honestly recorded as in the Verrazano map of 1524 (*ante*, under no. 42), the Maiollo (1527, under no. 39), the so-called Ferdinand Columbus (1527, *ante*, no. 38) and Ribero maps (1529, *ante*, no. 41); or conjecturally extended as in Schöner's globes of 1515 and 1520 (*ante*, nos. 34, 35), the Apian mappemonde of 1520 (no. 36), the Thorne map of 1527 (no. 39), the Münster map of 1532 (under no. 46); or purposely left doubtful as in the map of Reisch's *Margarita philosophica*, 1515 (*ante*, no. 33), the Tross gores (under no. 32), and others.

— A. D. 1526.

The map of the monk Franciscus, making South America an island, identifies North America with Asia, and substitutes the southern coast of Asia for the west coast of North America. (Lelewel, *Géog. du Moyen Âge*, pl. xlv.)

— A. D. 1530 (?)

The map in the Sloane MSS. (British Museum), illustrating the Asiatic theory of North America. (*Ante*, no. 43.)

The Turin atlas described in the *Jahresbericht des Vereins für Erdkunde in Dresden*, 1870, which leaves the northern extension of the coast uncertain. (*Ante*, no. 51.)

— A. D. 1532.

The cordiform map of Orontius Finæus, showing the Asiatic theory of North America. (*Ante*, no. 46.)

— A. D. 1532-40.

The map in Kunstmann, which does not go north of the California peninsula.

— A. D. 1534.

The Lenox wood-cut (*ante*, no. 47) does not go north beyond the limits of Central America.

— A. D. 1534-50.

The Italian mappemonde given in the *Jahresbericht des Vereins für Erdkunde in Leipzig*, 1871, which shows the coast as high as California.

— A. D. 1535.

Cortes' map of the coasts about the entrance of the Gulf of California, bought by the Rev. E. E.

Hale in 1883 from the Spanish Archives, of which there is a heliotype in the *Nar. and Crit. Hist. America*, ii. p. 442.

— A. D. 1536.

The Agnese mappemonde, which shows the Central America and Mexican coasts. (*Ante*, no. 52.)

A MS. mappemonde in the British Museum, which extends the coast northward to California. (*Ante*, no. 52.)

— A. D. 1538.

A map in the Basle edition of Solinus and Pomponius Mela, which represents the western coast of America indefinitely as "terra incognita."

— A. D. 1539.

Plate xlii. in the Portolano of Charles V. (*ante*, under no. 52), which shows the Central America coast.

Plates iv. and xiv. of the same, which extend the coast above the peninsula of California.

— A. D. 1540 (?)

Homem's mappemonde, which extends the coast northward to the California peninsula. (*Ante*, no. 60.)

— A. D. 1540-50.

The Nancy Globe (*ante*, no. 61), which follows the Asiatic theory.

— A. D. 1540.

Münster's map in the Ptolemy of 1540, which conjecturally disjoins North America from Asia. (*Ante*, under no. 52.)

Apian's map in his *Cosmographia* shows a similar but distorted separation. (See *ante*, no. 62.) It was repeated in the Antwerp edition of 1545, and in the Paris edition of 1551. (See *ante*, no. 62.)

— A. D. 1541.

Mercator's map in gores, giving a conjectural western limit to North America. (*Ante*, under no. 53.)

— A. D. 1540-50.

An Italian portolano, now in the Carter-Brown collection, and noted in Quaritch's *Catal. of Hist. and Geography*, 1885, no. 362, under 28,159, which contains five maps showing the west coast of North America, as a part of the western hemisphere, viz.:

No. vii., which resembles a map in an Atlas in the Biblioteca Riccardiana (*Jahresbericht des Vereins für Erdkunde in Dresden*, 1870, pl. vi.), shows the Asiatic theory.

No. ix. brings out the California peninsula, but goes no farther north.

No. xi. is in gores, adheres to the Asiatic theory, and resembles pl. ix. of the *Jahresbericht*, etc.

No. xxvii. is confined to the Central America coast.

No. xxix. goes north to the peninsula of California.

277. A. D. 1541. Castillo's California.

The map published by Bishop Lorenzana in his *Nueva España* (1770), who found it among the archives of the descendants of Cortes. Domingo del Castillo was a pilot in the fleet of Alarcon, who explored the coast in 1540, and penetrated to the

head of the gulf of California and discovered the Colorado river. A large part of his coast names are not to be found in the accounts of Alarcon's expedition, nor in those of the explorations of Ulloa (1539).

Kohl speaks of this map of California as the earliest known; but he was not informed respecting the map mentioned above under A. D. 1535.

Castillo's map is given in facsimile in the *Nar. and Crit. Hist. America*, ii. p. 444; and is sketched in H. H. Bancroft's *Cent. America*, i. 153, and *North Mexican States*, i. 81. He gives the coast a greater extension beyond the peninsula than it has in the original.

— A. D. 1542.

The map in Rotz's *Idrography* shows the Central America coast. (*Ante*, no. 55.) See also the Ulpius globe under the same number.

— A. D. 1543.

The Gotha map of Baptista Agnese shows the Central America and Mexican coasts. (*Ante*, no. 56.)

— A. D. 1544.

The Cabot mappemonde carries the coast north only so far as the peninsula of California. (See under no. 56.) Cf. sketches in *Nar. and Crit. Hist. America*, ii. pp. 227, 447.

— A. D. 1545.

A conjectural coast, called "Temistitan," given in the mappemonde of Münster in his edition of Ptolemy. (*Ante*, no. 57.)

The map in Medina's *Arte de Navegar* shows only the Central America coast. It is repeated in the 1549 edition, *Libro*, etc. (*Ante*, no. 59.)

Cf. the mappemonde, said to be on Mercator's projection (?), put between 1545 and 1558, which is described in F. S. Ellis's *Catal.* 1884, no. 174.

278. A. D. 1546. Upper California by Juan Freire.

Part of a Portuguese portolano, which was in Santarem's possession when Kohl copied this portion and no. 279, its complement. The language is partly Latin, partly Spanish, but mainly a corrupt Portuguese. The drafts used by Freire were evidently, as Kohl thinks, those of Ulloa and Alarcon, though he must have had other material. He does not give any names corresponding to the accounts of the explorations of Cabrillo and Ferrero (1542-43). The coast is given a westerly trend, as if to connect it with Asia. Kohl judges that Freire had some drafts of a voyager who sailed westward, and at intervals lost sight of the coast.

279. A. D. 1546. Lower California by Juan Freire.

From the same map as no. 278. A legend on the map in two places credits Cortes with the discovery of this coast. Freire seems to have used Castillo's chart and the reports of Ulloa and Alarcon. See *Nar. and Crit. Hist. America*, ii. p. 448.

— A. D. 1548.

Gastaldi's map, numbered 59 in the edition of Ptolemy of this year, which follows the Asiatic theory; and the "Carta Marina" in the same. (See *ante*, under no. 53; and *Nar. and Crit. Hist. America*, ii. 435.)

An atlas of about this time in the Biblioteca Riccardiana at Florence is described in the *Jahresbericht des Vereins für Erdkunde in Dresden*, 1870, which has several maps showing the west coast of North America. The maps in Tab. vii. and ix. carry the coast north to the peninsula of California, and one of those in Tab. ix. carries it a little farther. Two maps in Tab. vi. illustrate the Asiatic theory.

— A. D. 1554.

The map of Bellerio shows the Central America and Mexican coasts. (*Ante*, no. 64.)

An atlas of Agnese (*ante*, under no. 64) gives maps showing the coast from the peninsula of California south.

— A. D. 1555.

A French map brought forward by Jomard shows a purely conventional west coast. (*Ante*, no. 255.)

— A. D. 1556.

The map in Ramusio extends north to the peninsula of California. (*Ante*, no. 66.)

The map of Vopellio in Girava's *Cosmographia* adheres to the Asiatic theory. (See *ante*, under no. 66.) There is a facsimile of the American part in the *Nar. and Crit. Hist. America*, ii. p. 436. Girava says he used a draft by Vopellio as the basis of the map, which is often wanting in copies of the book, whose value, according as the map is in facsimile or an original, has recently been fixed by Quaritch at £ 3 10 0 and £ 21. The edition of Girava in 1570 is the same, with the preliminary leaves reprinted.

— A. D. 1558.

The map of Homem carries the coast north to the California peninsula. (*Ante*, nos. 67 and 257.)

The map of Martines, placed usually somewhere in this decade (*ante*, no. 63) is one of the earliest to contract the water supposed to separate America from Asia to the dimensions of a strait. It is sketched and described in the *Nar. and Crit. Hist. America*, ii. 450.

— A. D. 1560.

The map of Forlani adheres to the Asiatic theory. (*Ante*, no. 69.) It is sketched in the *Nar. and Crit. Hist. America*, ii. 438.

— A. D. 1561.

A map of Honter illustrating the Asiatic theory. In Ruscelli's edition of Ptolemy (see under no. 69, *ante*), a map of the western hemisphere carries a definite coast line beyond the California peninsula, above which a dotted coast line is marked "littus incognitum." The map of "Nueva Hispania" develops the Gulf of California and adjacent coasts.

— A. D. 1566.

The map of North America by Zaltieri (*ante*, under nos. 69 and 94) shows the narrow strait as given in the Martines map (*ante*, under A. D. 1558). It is given in facsimile in the *Nar. and Crit. Hist. America*, ii. p. 451. The claim of Kohl that it is the earliest to show the straits of Anian compels the putting of a map of Martines later than here judged.

A map of Des Liens (*ante*, under no. 69) gives only the Central America coast.

— A. D. 1568.

The map of Diegus (Homem) turns the coast-line east a little distance above the head of the California peninsula. See *ante*, no. 70; and *Nar. and Crit. Hist. America*, ii. p. 449; iv. p. 92.

— A. D. 1569.

The great map of Mercator (*ante*, under no. 71). It established more effectually the type of the strait of Anian as prefigured by Martines and Zaltieri. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 452.

— A. D. 1570.

The Ortelius map follows Mercator's. (*Ante*, no. 72, and *post*, no. 324.)

— A. D. 1572.

The Porcacchi map also gives a similar strait of Anian. (*Ante*, under nos. 72 and 95.) It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 453.

— A. D. 1574.

Forlani's map. (See *post*, no. 325.) The map in Gallæus' *Enchiridion* (*ante*, under no. 72) follows the Mercator type.

— A. D. 1576.

The map in Humphrey Gilbert's *Discourse* (*ante*, no. 74) has a coast little resembling any other map, but gives the strait of Anian.

280. A. D. 1578. California by Martines.

It shows the coast from 10° to 55° north, with "Giapan" and a part of the Asiatic coast. It is from the Martines Atlas in the British Museum, made between 1568 and 1578, at Messina, though Martines seems to have been a Spaniard. The outline of the gulf of California is much less accurate than in earlier maps.

This is a different atlas from the one of 155- (?), mentioned *ante* under A. D. 1558. A sketch of the Central America coast of the 1578 atlas is given in the *Nar. and Crit. Hist. America*, ii. p. 229.

— A. D. 1578.

The map in Best's *Frobisher* is rudely delineated. (*Ante*, no. 78.)

— A. D. 1580.

The map of Dr. Dee (*ante*, no. 96) carries the coast above 40° N. Lat.

— A. D. 1582.

Lok's map leaves the coast uncertain above the peninsula of California. (*Ante*, no. 97.)

The map of Popellinière's *Trois Mondes* is of the Mercator (1569) type.

— A. D. 1587.

The Myritius map follows the Asiatic theory. (*Ante*, no. 79.)

— A. D. 1587.

The Hakluyt-Martyr map carries the coast well up to the Arctic region. (*Ante*, under no. 79.)

281. A. D. 1592. California (Molineaux's Globe).

From the globe in the Middle Temple, London. Sir Francis Drake's track is pricked upon it, and is taken perhaps from Drake's charts, now lost. It shows Drake to have gone as far north as 48°. The general trend of the coast is more northerly than westerly, as on earlier maps. There is a sketch in the *Nar. and Crit. Hist. America*, ii. p. 455.

282. A. D. 1593. Northwest Coast by C. de Judæis.

A map from Cornelius de Judæis's *Speculum Orbis Terræ*, 1593, and called "Quiviræ Regnum," which is the name on a protuberance of the coast line in 40° N. lat.; while a larger protuberance in 60° is called "Anian Regnum." Northwest of this last peninsula, under 70°, is a pinnacle-rock, in the sea, which marks the "Polus Magnetis." An inscription in the interior notes that oxen and cows, which have the hump of a camel, and the tail and feet of lions, frequent the woody plain. (*Ante*, no. 98.)

A map of the same date in the *Libri* of Maffei. (*Ante*, under no. 83.)

— A. D. 1597.

De Bry's map, giving the conventional view of the time. See enumeration *ante*, under no. 84.

The Arnheim edition of Ptolemy has the following maps showing the west coast of North America:—

No. 2, the western hemisphere, much like the Mercator type.

No. 28, the straits of Anian.

No. 29, a mappemonde, giving the west coast in the conventional manner of the period.

No. 32, the North Pacific, showing an indefinite "Pars Americæ."

Nos. 34 and 35, the western hemisphere, with a Pacific coast of the Mercator type.

The map of Porro (*ante*, no. 85) distinguishes this edition from the Cologne edition of Ptolemy of the same year.

Wytfliet's continuation of Ptolemy contains several maps showing the west coast.

No. 1. The western hemisphere shows the straits of Anian. This map is given in facsimile in the *Nar. and Crit. Hist. America*, ii. p. 459.

No. 13. "Granata nova et California" develops the region of the California peninsula, and a facsimile of the map of the gulf is given in the *Nar. and Crit. Hist. America*, ii. 458.

No. 14. "Quivira et Anian," showing the region from Cape Blanco north.

— A. D. 1598.

The mappemondes in Wolfe's Linschoten and in Münster's *Cosmographia* of the current type for the west coast of North America. (Cf. *ante*, under nos. 84 and 86.)

The Italian Ortelius, published at Brescia, gives a map of the current type for this coast, and one which clings to the Asiatic theory, being about the last instance of such views.

— A. D. 1600.

The map in the *America* of Metullus has the Wytfliet type. (*Ante*, under no. 87.)

— A. D. 1601.

The maps of Herrera and Quadus. (*Ante*, nos. 88 and 99.)

283. A. D. 1602. The California Coast after Viscaino.

The coast from Cape Mendocino to Cape St. Lucas. It is composed from the 32 charts of the coast which Viscaino made, and which were deposited in the Spanish Archives, when the editors of the voyage of the Spanish vessels, "Sutil" and "Mexicana," brought the present sketch to light, basing it on those lesser charts.

Cf. sketch in *Nar. and Crit. Hist. America*, iii. p. 75; and reproduction in *Atlas para el Viage de las goletas Sutil y Mexicana* (1802), by Dionysio Alcalá-Galiano.

284. A. D. 1602. The same.

A less perfect sketch.

— A. D. 1603.

The maps in Botero's *Relaciones*,—one of the world, the other of the western hemisphere,—are of the Mercator type. The Italian edition was in 1595. (See *ante*, under no. 84.)

— A. D. 1604.

Buache engraved in 1754 a Spanish map of 1604, made at Florence by Mathieu Neron Pecciolen, which shows the gulf of California and adjacent coasts. It is also in the *Encyclopédie* published at Paris in 1777 (supplement).

— A. D. 1606.

The map in Cespedes' *Regimiento de navegacion* leaves the northwest coast partially indeterminate. (*Ante*, no. 89.)

— A. D. 1613.

The map illustrating the narrative of Ferdinand de Quir in the *Detectio Freti* of Hudson, edited by H. Geritz, gives an unusual width to the straits of Anian.

The Mercator-Hondius atlas contains a map of the world, another of America, both by Hondius, and one of America by Michael Mercator. They all show the straits of Anian, but the protuberant coast of America has no marked feature except the gulf of California. Similar features mark the map of Hondius, which he based on the results of the voyages of Drake and Cavendish (*ante*, no. 91), and the map of Oliva (*ante*, no. 90).

— A. D. 1622.

The map in Kasper van Baerle's edition of Herrera is thought to be the earliest to return to the original belief that the peninsula of California was an island. The history of this latter belief is traced in the *Nar. and Crit. Hist. America*, ii. 461, etc. The same 1622 edition of Herrera at the same time repeats the map from the original edition of 1601, which presents the peninsular form for California.

— A. D. 1625.

The map accompanying the treatise by Briggs in Purchas's *Pilgrimes* (*ante*, no. 100). It is sketched in H. H. Bancroft's *North Mexican States*, i. 169. It makes California an island. Cf. H. H. Bancroft's *Northwest Coast*, i. 103, 104.

— A. D. 1626.

The map in John Speed's *Prospect* makes California an island, and carries the main coast above it by a dotted line.

— A. D. 1630.

The map in De Laet's *Nieuwe Wereldt*. (*Ante*, no. 92.)

285. A. D. 1630. Northwest Coast by Dudley.

From Dudley's *Arcano del Mare*, 1630. Kohl judges from the original MS. draft of this map preserved in Munich, in which the latest date mentioned is 1621, that Dudley made this map but a few years later. Dudley seems not to have been aware of Viscaino's drafts. His inscriptions credit the discovery of the coast, which he calls "Regno di Quivira," to Sir Francis Drake in 1579. He shows "Asia" on the west edge of the map, as "La grand isla di Jezo," and his notes at Munich say that Dudley got his knowledge of that region from the Jesuits in Japan. See facsimile in *Nar. and Crit. Hist. America*, ii. p. 465. This is plate no. xxxiii. Plates xxxi. and xxxii. represent California as a peninsula. In his Liber ii. (p. 19), a map of "Nuova Albione" extends from a vague "golfo profondo" (with an "I. de Cedros" at its entrance) to Cape Mendocino.

Kohl gives 1630 as the date of the *Arcano*, but no earlier edition than 1646 has come under my observation; though the book in a smaller shape and of that earlier date is said to exist.

286. A. D. 1630. Gulf of California by Dudley.

This is, as Kohl says, from the MSS. of Dudley at Munich, and not from his *Arcano del Mare*. The names are mostly Italian, but a few are in Spanish. He represents California as a peninsula. It does not appear whence he got his views.

— A. D. 1635.

The Saltonstall English edition of the Hondius-Mercator atlas has a map of America, which is a reduction from the map in the 1613 edition of the atlas.

— A. D. 1636.

The Hexham English edition of the Hondius-Mercator atlas has two maps showing the west coast of North America. In both California is an island; in one there is, and in the other there is not, a break in the main coast line opposite the head of the island.

— A. D. 1637.

A map in *Le Monde* of D'Avity, sketched in H. H. Bancroft's *Northwest Coast*, i. 108.

— A. D. 1640.

The alleged explorations of Bartolomé de Fonte at this time gave rise, after the publication of the story in 1708, to various conjectural maps of the west coast of North America, prominent among which are the renderings of Delisle and Buache, 1752-53, and the map of Jefferys.

The indications of this venturesome cartography are noted in H. H. Bancroft's *Northwest Coast*, vol. i., and in the *Nar. and Crit. Hist. America*, ii. p. 462, 463. See *post*, under A. D. 1752-53.

— A. D. 1646.

Dudley's *Arcano del Mare*. See *ante*, nos. 285, 286.

The two maps of Petrus Kœrius (1646) in Speed's *Prospect of the most Famous Parts of the World* (London, 1668), show the geographical confusion of the time. In one California is an island, with a fixed coast above, to the straits of Anian; in the other, California is a peninsula, and there are alternative coasts north of it, in half-shading.

— A. D. 1651.

A map in Jansson's *Atlas Minor* makes California a peninsula, indicates north of it a doubtful passage to the north sea, and further west delineates the "Fretum Anian."

A map in Speed's *Prospect* (edition of 1676) makes Cape Mendocino the northern point of California island, with a break in the coast of the main land opposite, while another Cape Mendocino is drawn still further north.

A map of Virginia by Virginia Farrer (facsimile in *Nar. and Crit. Hist. America*, iii. 465) makes the coast of New Albion (Drake's) lie at the base of the western slope of the Alleghanies, narrowing the continent to a few days' journey.

— A. D. 1652.

Maps of the same cartographer, called in one N. I. Visscher and in the other N. I. Piscator, make California a peninsula, and indicate the straits of Anian.

— A. D. 1655.

Wright in his *Certain Errors in Navigation* has an insular California.

287. A. D. 1656. Sanson's California.

California is shown as an island, a view, as Kohl thinks, introduced by Purchas (*ante*, under A. D. 1625; but see under A. D. 1622) in the map which he gives as found among some Spanish charts captured by the Hollanders. The country inland is called "Nueva Mexico" in the north, and "Nueva Granada" in the south. The "Rio del Norte," on which Santa Fé is placed, runs into the gulf of California; and this river continued to have this course given to it till Coronelli, as Kohl says, directed it to the gulf of Mexico. The map is reproduced in the supplement of the French *Encyclopédie* for 1777.

Sanson repeated his draft in 1657, making the main coast end with "Aguhela de Cato;" and in his *L'Amérique* (1657-83) he puts a "Terre de Jesso" northwest of the insular California.

— A. D. 1659.

The map in the *Hist. of the World* by Petavius (Petau) gives an insular California and the usual break in the main coast opposite its northern extremity.

— A. D. 1661.

In Van Loon's sea-atlas the map "Nova Granada en l'Eylant California" gives a strait of Anian a little higher up than the island, and puts a "Terra incognita" beyond it.

— A. D. 1663.

The map "Americæ nova descriptio" in Heylin's *Cosmographie* (1669, 1674, 1677) carries above a point

opposite the head of the island of California a dotted line, which, farther above, branches in three conjectural directions.

— A. D. 1670-71.

Blome follows Sanson. In Montanus and Ogilby, California is an island (*ante*, section vi., A. D. 1670-73). Ogilby's map is sketched in H. H. Bancroft's *Northwest Coast*, i. 110.

— A. D. 1683-1704.

Hennepin sometimes makes California an island, sometimes a peninsula. Blaeu about this time had the same hesitancy.

288. A. D. 1683-? New Mexico by Coronelli.

An imperfect draft, without Kohl's annotations. It represents California as an island. The "Rio del Norte" becomes the "Rio Bravo," and flows to the Mexican gulf.

Coronelli's globe of 1683 makes California an island.

— A. D. 1684.

Franquelin's great map shows only a part of California, but he marks it as an island. (*Ante*, section iii., A. D. 1681-84.)

— A. D. 1694.

Jaillot has California an island, with "Terra de Jesso" northwest of it. (*Post*, no. 328.)

— A. D. 1695.

A map of Guillaume Delisle represents a "Mer de l'Ouest" lying on the parallel from Cape Mendocino to Lake Superior, but he gives it no defined connection with the Pacific, while the straits of Anian are delineated with coast lines extended but a short distance on either side. This map was published by the younger Delisle in 1752.

About the close of the century Covens and Mortier of Amsterdam published what are known as the Carolus Allard atlases. One of these represents California as an island, and a "Terra Esonis" north of it, with a strait at either extremity, — that on the west separating it from "Yedso," apparently a part of the Asiatic coast.

— A. D. 1698.

Edward Wells in his *New Sett of Maps* gives the island of California with a "supposed straits of Anian" just north of its upper end, but he omits all coast lines above it.

— A. D. 1700.

Delisle makes California a problematical peninsula.

289. A. D. 1701. Gulf of California by Father Kino.

Shows the results of the explorations of Father Kühn, — a German, whose name was changed by the Mexicans to Kino, as Kohl says, — instigated by the Jesuit Salvatierra. The map shows the convictions of Kino, that California was a peninsula, rather than a demonstration from his own explorations. He published his map originally in the *Lettres Édifiantes*, vol. v. (1705), and it is called "Passage par terre à la Californie. Découvert

par le Rev. Père E. F. Kino, Jesuite, depuis 1698 jusqu'à 1701."

See Father Kino's explorations indicated in the map of Alzate. (*Ante*, no. 270.)

Kino's map was re-engraved by Buache in Paris (1754), by Sayer in a map of North America published in London, in the supplement of the French *Encyclopédie* (1777), by Marcou in *Report of the Chief of Engineers, U. S. A.* (1878), and in H. H. Bancroft's *North Mexican States*, i. 499. Cf. *Nar. and Crit. Hist. America*, ii. p. 467.

— A. D. 1705.

The map in Harris's *Collection of Voyages*, reproduced in H. H. Bancroft's *Northwest Coast*, i. 114. California is an island.

— A. D. 1707.

Vander Aa's map is sketched in H. H. Bancroft's *Northwest Coast*, i. 115.

— A. D. 1712.

A Spanish map of the Pacific coast of Mexico is described, *ante*, no. 269.

— A. D. 1715-1717.

Delisle varied in his drafts of California, being undecided on the evidence; and in the latter year, while he made it a peninsula, he cut the coast line north of it by a great gulf, "Mer de l'Ouest," extending inland indefinitely.

— A. D. 1719.

Homann of Nuremberg made an insular California, with an entrance to a supposed gulf opposite with an island in the middle of the passage.

— A. D. 1720.

The *Atlas geographicus* of Seutter, Augsburg, retains the Californian island, separated by a passage, "Fretum Anian hic esse creditur," from "Terra Essonis."

— A. D. 1726.

The map in Shelvocke's *Voyages* professed to represent current opinion in making California an island. Similar maps about this time were issued by Vander Aa of Amsterdam.

— A. D. 1727.

Herman Moll, the English geographer, gives the island and the straits north of it, with no coast line beyond.

— A. D. 1728.

The map in Herrera, making California a peninsula, carries the coast up to Cape Mendocino.

290. A. D. 1740. The California Coast.

A map of the North Pacific was found by Anson in 1742, on board a Spanish ship captured by him on the China coast. It was engraved on a reduced scale in Anson's *Voyage Round the World*, London, 1748. It was next embodied by Jefferys in his map of the North Pacific, and of this the present map is a copy. Jefferys, however, made some additions to the original Spanish map. He says of this proto-

type, that it is scarcely reconcilable with other charts and journals, as to the names and situations of places. The English cartographer also pricks out the tracks across the Pacific of Gaetan (1542), Mendana (1568), Francisco de Gualle (1583), Cavendish, Spillbergen (1616), Fronolat (1709), and of the track each way of the "Nuestra Señora de Cabodonga" (1743), the ship captured by Anson. Jefferys calls the northern parts of the coast the Chinese "Fou-sang," while Kohl believes that debatable region to have been Japan.

— A. D. 1741.

Oldmixon's *British Empire in America* still gave an insular California, with a dotted coast line above, broken by the straits of Anian, — as drafted by Moll.

H. H. Bancroft's *Northwest Coast*, i. 124, gives a Russian chart.

291. A. D. 1743. California.

The map mentioned under no. 290, as engraved in Anson's *Voyages*.

— A. D. 1743.

Bellin's map in Charlevoix makes California a peninsula, with a break in the coast farther north marked "Aguilar." He supposes an interior network of waters connecting Hudson's Bay and Lake Superior with the Pacific, at some point still farther north. Cf. the map in Bonnechese's *Montcalm et le Canada français*, Paris, 1882.

— A. D. 1744.

Map in Arthur Dobb's *Account of Countries Adjoining Hudson's Bay*. The Pacific coast above Cape Blanco is marked as unknown, but a passage called Rankin's Inlet is supposed to connect with Hudson's Bay. There is a sketch in H. H. Bancroft's *Northwest Coast*, i. 123.

292. A. D. 1746. The Gulf of California by Consag.

The Jesuit father, Fernando Consag, explored the eastern coast of the California peninsula, and making the circuit of the north end of the gulf, reached the Colorado river, and proved for the first time by actual observation that California was a peninsula. The present is Consag's map of the gulf, made after his explorations. It is sketched in H. H. Bancroft's *North Mexican States*, i. 463, and his *Northwest Coast*, i. 125, 126.

— A. D. 1746.

A map published by the successors of Homann retains the peninsular California with the entrance above, marked "Aguilar."

Another German map published by Covens and Mortier, *Introduction à la Géographie*, gives an insular California, with a "Detroit d'Anian," supposed to connect, through a "Mer glaciale," with Button's Bay, a part of Hudson's Bay.

— A. D. 1747.

The maps in Bowen's *Geography* give a peninsular California with indications of a strait above Cape Mendocino, but the parts above are marked "undiscovered."

— A. D. 1748.

Bellin connected Lake Superior with the Pacific by a chain of waters.

— A. D. 1750.

Robert de Vaugondy in his *Amérique Septentrionale* makes California a peninsula, and marks a passage above as discovered by Martin d'Aguilar.

— A. D. 1752-53.

Delisle and Buache were making maps of the coast above the peninsula of California, cut up fantastically with passages of one kind and another, connecting the Pacific with the Great Lakes and Hudson's Bay, in vain attempts to reconcile with positive knowledge the accounts of Maldonado, De Fuca and De Fonte. Delisle's map is reproduced in H. H. Bancroft's *Northwest Coast*, i. 128.

The "Mer de l'ouest," supposed to be an interior sea, reached by passages from the Pacific, figures largely in these maps, and the imaginary draft of it by Buache is reproduced in J. B. Laborde's *Mer du Sud*, Paris, 1791, and in the supplement of the French *Encyclopédie*, 1777. Cf. Dobb's *Northwest Passage* (1754). Other cartographical solutions of this problem will be found in Samuel Engel's *Mémoires sur la situation des pays septentrionaux* (Lausanne, 1765); in his *Extraits raisonnés des Voyages faits dans les parties septentrionales de l'Asie et de l'Amérique* (Lausanne, 1765, 1779); and in William Doyle's *Account of the British Dominions beyond the Atlantic* (London, 1770).

See *post*, nos. 334, 339.

293. A. D. 1753. The Northwest Coast, by T. Jefferys.

From Cape St. Lucas to 60° n. lat. An incomplete sketch. Shows New Albion and the discoveries of Drake. A supposed large island to the west in mid ocean is marked as seen or suspected to exist by Behring in 1728, and Tschirikow in 1741. He gives a river supposed to connect the Pacific with lake Winnipeg.

294. A. D. 1758. Alaska.

Map of discoveries made by Russian vessels, which was published by the Academy at St. Petersburg in 1759, showing the voyage of Behring and Tschirikow. The Aleutian islands are shown as combined to form a supposable broad peninsula. The "Rivière de los Reyes de l'Admiral de Fonte" (1640) is marked "pretenda;" and the inlet held to be found by De Fuca in 1592 is indicated, but not continued inland. The entrance found by d'Aguilar in 1603 is made by dotted lines to connect with the "R. de l'Ouest."

— A. D. 1760.

An entrance to an interior passage in the northwest is given in *L'Amérique par les S^{rs}. Sanson, rectifiée par le S^r. Robert*. It is given in Vander Aa's *Galerie agréable du Monde*, vol. i.

— A. D. 1761.

H. H. Bancroft's *Northwest Coast*, i. 130, gives a Japanese map.

— A. D. 1762.

Jefferys in delineating the northwest coast puts an entrance supposed to have been found in 1592 by Juan de Fuca to the south of "Fousang."

Janvier in the *Atlas Moderne* indulges in all the freaks that Delisle and Buache had made in dealing with the alleged voyages of De Fonte and the others.

— A. D. 1763.

The "Mer de l'Ouest" and other uncertainties are found in the *Carte d'Amérique pour l'usage du Roi en 1722 par Guil. Delisle, augmentée par Phil. Buache*, Paris, 1763.

— A. D. 1767.

Map by Alzate (*ante*, no. 270). A Jesuit map of the peninsula of California in the supplement of the French *Encyclopédie*, 1777.

— A. D. 1768.

Jefferys' map of the De Fonte narrative, given also in the supplement of the French *Encyclopédie* (1777), and in H. H. Bancroft's *Northwest Coast*, i. 131.

— A. D. 1772.

Vaugondy's *Carte de la Californie*, reproduced in the supplement of the French *Encyclopédie* (1777).

— A. D. 1774-1790.

Copies of maps in the Hydrographic Office, Madrid, now in the Department of State, Washington, marked *Viages de los Españoles a la costa norweste de la America en los años de 1774-1775-1779, 1788 y 1790*.

295. A. D. 1775. Upper California by Maurelli.

The chart of Antonio Morelli, who accompanied an expedition sent out in 1775 by the Viceroy of Mexico. Bodega, who commanded one of the vessels, discovered a harbor just north of San Francisco, and named it after himself. Kohl copies in this a transcript of a chart preserved in the Spanish Archives, which transcript, attested by Navarrete, is in the Department of State at Washington. It purports to be drawn from observations made by Bodega, commander of the "Sonora," and by Maurelli. There are no indications of De Fuca's straits on it.

— A. D. 1775.

A map by Jefferys delineates the coast from New Albion to Mount St. Elias, indicating several openings, but not carrying them inland.

— A. D. 1776.

A map by Jefferys gives a protuberant coast line at the northwest, named "America," the northern part of which he marks "according to the Japanese," while south of that he designates it as land "seen by Spangenberg, 1728." "Alashka" is made an island lying west of it, with Behring's straits separating it from Asia.

See *post*, no. 336.

296. A. D. 1777. San Francisco and Monterey by Junipero Serra.

After a map in the British Museum inscribed: "Plano mappa del viage hecho desde Monterey al gran puerto de S. Francisco . . . P. F. Petrus Font fecit, anno 1777." Supposed, in the pricked track upon the drawing, to represent the journey of Don José Moraza, about the bay of San Francisco, and to record his surveys. Kohl supposes the imperfect

delineation of the Monterey waters to follow earlier surveys.

— A. D. 1778.

The map in Carver's *Travels through the Interior Parts of North America in 1766-1768*, London, 1778. It shows the New Albion coast, with vague indications of the straits of Anian and the Western sea. It is sketched in H. H. Bancroft's *Northwest Coast*, i. 133.

Captain James Cook's map of his explorations on the northwest coast, published in his *Voyage to the Pacific Ocean, 1776-1780*.

297. A. D. 1782. Upper California by Mascaro.

The coast is shown from Cape Mendocino to San Diego. From a MS. Spanish map in the British Museum. The tracks of the expedition by land of Juan Baptista de Ansa and others are noted by pricked lines.

298, 299. A. D. 1782. New Mexico by Mascaro.

A tracing from the original in the British Museum, and an imperfect draft of the same, without annotations by Kohl.

300. A. D. 1782. Port of San Diego.

Published in 1802, in the accounts of the voyage of the "Sutil y Mexicana."

— A. D. 1782.

Janvier's map preserves the great Sea of the West, with two entrances,—one passed by Aguilar, the other by De Fuca. It is sketched in H. H. Bancroft's *Northwest Coast*, i. 135.

— A. D. 1786.

The maps of La Pérouse in his *Voyage autour du Monde*. H. H. Bancroft, *Northwest Coast*, i. 176, sketches one of them.

301. A. D. 1787. Old and New California by Diego Francisco.

Shows the gulf of California and the Pacific coast north to San Francisco. Made to show the travels of Junipero Serra, the president of the missions of California. The bounds between New and Old California are laid down as an east and west line from the coast, just south of San Diego, to the head of the gulf of California. A road is indicated as connecting all the missions.

— A. D. 1787.

The map in George Dixon's *Voyages Round the World, 1785-1788*, part of which is given in H. H. Bancroft's *Northwest Coast*, i. 180.

302. A. D. 1791. Port of Monterey.

From the atlas of the "Sutil y Mexicana" voyage.

303. A. D. 1791. The Straits of Juan de Fuca.

Part of a MS. chart of Vancouver's Island and surrounding waters, obtained from Mexico, and preserved at Washington. It shows the Spanish surveys of Francisco Elisa, or his deputy, Alférez Quimper. It is given in the *Reply of the United*

States (1872) on the San Juan boundary; and H. H. Bancroft's *Northwest Coast*, i. 242, gives part of it. Cf. other maps of Elisa, *Ibid.* i. pp. 245, 247.

304. A. D. 1791. Friendly Cove, Vancouver's Island.

From the map published in the account of the voyage of the "Sutil y Mexicana." See *post*, no. 310.

305. A. D. 1791. Queen Charlotte's Island by Captain Ingraham.

From the MS. report of Captain Ingraham, preserved in the Department of State, Washington,—the same named by Captain Gray in 1790, "Washington Island."

— A. D. 1791.

Map in Marchand's *Voyage autour du Monde*, part of which is given in H. H. Bancroft's *Northwest Coast*, i. 256.

— A. D. 1791.

Georg Forster's *Northwestküste von America*, showing the "Grosser Nordliche Archipelagus Lazari," with "Juan de Fuca's Einfahrt."

306. A. D. 1792. Quadra and Vancouver's Island by Ingraham.

From the same report as no. 305. Cf. H. H. Bancroft's *Northwest Coast*, i. 278.

307. A. D. 1792. California Coast.

Shows the coast from 17° to 48° n. lat., following part of a Spanish chart in the archives at Washington, which came from Mexico. See no. 309, *post*.

308. A. D. 1792. California Coast.

The map in the *Atlas para el Viage de las Goletas Sutil y Mexicana en 1792*, published in 1802, under the editing of Navarrete,—the ships being commanded by Valdes and Galiano. The map maker profited by the surveys of Vancouver, who had published his results meanwhile.

309. A. D. 1792. Northwest Coast.

A continuation northward of the chart, no. 307.

310. A. D. 1792. Friendly Cove by Captain Ingraham.

From Ingraham's report, already cited.

311. A. D. 1792. Vancouver's Island and the Oregon Coast.

From the *Atlas* of the "Sutil y Mexicana" expedition.

— A. D. 1792-93.

H. H. Bancroft in his *Northwest Coast*, vol. i., gives the following maps:

- 1792. Haswell's map of Nootka (p. 262).
- 1792. Caamaño's map (p. 269).
- 1792. Galiano's map (p. 272).
- 1792. Vancouver's maps (pp. 276, 280).
- 1793. Vancouver's map (p. 292).

— A. D. 1793.

The map in William Goldson's *Observations on the Passage between the Atlantic and Pacific Oceans, in two Memoirs on the Straits of Anian and Discoveries of De Fonte*.

— A. D. 1812-1813.

Carta general (Pacific ocean) por José de Espinosa. Londres año 1812; Corregida en 1813.

312. A. D. 1854.

An engraved *Karte des Russischen Amerika gezeichnet von H. J. Holmberg, 1854*, which appeared in the *Ethnographische Skizzen über die Völker des Russischen America von H. J. Holmberg*, Helsingfors, 1855.

X.

THE NORTHERN PACIFIC OCEAN AND ITS COASTS.

•• See section ix.

313. A. D. 1457. **China and Japan.**

From a Chinese treatise, *Yik-tung-che*, in the British Museum. Shows eastern coast of China and the islands of Japan and Lew-Chew. Korea is in the north.

314. A. D. 1490. **Eastern India, from the Ptolemy of 1490.**

The furthest point to the west is the gulf of Ganges. The Pacific coast is cut off by the right-hand edge of the map, and this is, in Kohl's opinion, the shore Columbus believed that he was skirting in sailing along the gulf-side of Central America. The name Cattigara, here on the land at the right-hand edge of the map, Kohl says he finds in early maps on the west coast of South America. See Winsor's *Bibliog. of Ptolemy*.

315. A. D. 1513. **Pacific Ocean.**

A Portuguese map. The west coast of America is unindented, and runs nearly northwest from 4° south latitude. The Moluccas and the southeast peninsula of Asia are shown. Follows a chart preserved in the Military Museum at Munich. Kohl supposes it to embody the explorations of Antonio da Miranda de Azevedo in 1513, who joined at the Moluccas an earlier expedition (1511-1512) by Francisco Serrão to those islands. This map is sketched in the *Nar. and Crit. Hist. America*, ii. p. 440. See section ix., under A. D. 1513.

316. A. D. 1518. (?) **Pacific Ocean.**

On the extreme west are the "Ilhas de Maluqua," on the extreme east the coast discovered by Balboa in 1513, and beyond the coast of Yucatan, Honduras, Cuba, Florida, etc. In mid-ocean there is nothing. The original is a Portuguese chart in the Military Museum at Munich. Kohl supposes it to have been made about the time Magellan's fleet was fitting out, and that it probably represents that explorer's views of the ocean which he was going to seek. The gulf of Mexico is left open towards the Pacific. The Pacific is made about 100° broad. Sketched in the *Nar. and Crit. Hist. America*, ii. 217.

317. A. D. 1536. **The Moluccas by Baptista Agnese.**

From the atlas of Agnese in the British Museum. Kohl suspects that Agnese used the maps brought back by Del Cano from Magellan's expedition, because there are traces of Spanish in the names, and none of Portuguese. The names in Pigafetta's narrative of Magellan's voyage are found here; and the islands are placed in relation to each other as to direction and distance as in that report. The Moluccas seem to be curiously duplicated, the one draft of them being 15° east of the other.

318. A. D. 1536. **Eastern Asia by Agnese.**

From the same *Atlas* as no. 317. It shows the two great southern peninsulas of Asia, and the coast of China.

319. A. D. 1542. **Eastern Asia by Rotz.**

"The Indies of Orient," from Rotz's *Boke of Idrography* in the British Museum. It shows the two great Asiatic peninsulas, the islands of Java, etc., and what seem to be the northern parts of Australia; and this, in Kohl's opinion, is the earliest instance of the recognition of that region on a map. (*Ante*, no. 55.)

320. A. D. 1543. **Asia.**

Shows the whole of Asia. From the *Polyhistoria* of Solinus. The southeastern part becomes a continental peninsula, as in the ancient maps. The editor of Solinus, Tsingrinus, did not recognize the fact, as Kohl thinks, that the Portuguese had already on their maps broken up this extension into the East Indian Archipelago. In the northeast corner of the map is a coast, "Terra incognita," which seems to be a recognition of the west coast of America.

321. A. D. 1550. **Japan and the China Coast by Freire.**

From a portolano by Juan Freire, inspected by Kohl while in the hands of Santarem. In his notes, Kohl says that some of the maps in it are dated 1546, though this one is undated; but he believes it to have been made about 1550. It was in 1543 or 1545 that the Portuguese under Ferdinand Mendez Pinto reached Japan; but their commercial intercourse began in 1549, when their missionary Xavier reached the island. This was a type of the contour of the Japanese coast common in European maps before the Dutch reformed the shape of it about 100 years later.

322. A. D. 1558. **China and the Moluccas by Diego Homem.**

From Homem's MS. atlas in the British Museum. As a Portuguese, Homem's knowledge of the China coast was superior to that of any other existing record, and better than that employed by Ortelius and Mercator much later.

323. A. D. 1568. **The East India Islands by Martines.**

The chief name on the map is "Isoli Maluchi." He gives the upper coast of an Antarctic continent marked "discoperta novamente." The map is less accurate than Homem's. (*See ante*, no. 322.)

324. A. D. 1570. Straits of Anian and Neighboring Lands by Ortelius.

From the *Theatrum orbis terrarum*, Antwerp, 1570. Kohl says that for all north of 40° (Japan) Ortelius had no authority but Pliny, Ptolemy, Marco Polo, and the geographical traditions of his time. An "Oceanus Scythicus" is given above 58° N. lat., bounded westerly by a northern peninsula of Asia. America lies wholly south of the same ocean. The peninsula of California is drawn, but represented very broad; the gulf is called "Mar Vermeio." Japan is longest east and west, and lies midway between Asia and America. The sea contracts above Japan, in 48° N. lat., forming the straits of Anian ("Stretto di Anian"). He gets "Quinci," "Mangi," "Mare Cin," from Marco Polo. The map is called "Tartariæ sive Magni Chami regni typus."

The straits of Anian seem to be earliest indicated on the Martines map (*ante*, in section ix., under A. D. 1558). Various later maps in that section show the changing notions respecting the straits of Anian.

325. A. D. 1574. Anian and Quivira by Forlani.

A small, incomplete sketch of Forlani's map (without comment by Kohl), showing the straits of Anian separating "Anian Regnum" from "Quivir," with "Isle di Giapan," stretching east and west between the Asiatic and American coasts. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 454.

— A. D. 1583-1600.

The Japanese map in the Sloane collection, British Museum.

326. A. D. 1592. Northeastern Asia and Japan from Molineaux's Globe.

Extract from the globe in the Middle Temple, London. The contour of Japan follows Portuguese sources.

— A. D. 1597.

No. 28 of the Arnheim edition of Ptolemy, showing the straits of Anian. (See *ante*, section ix., under A. D. 1597); no. 32, showing the North Pacific. (See *Ibid.*)

327. A. D. 1609. China and Japan.

From a MS. sketch on vellum in the British Museum, purporting to have been sent from Madrid in 1609.

328. A. D. 1636. Japan.

Called "Perfecte Karte van de gelegentheijdt des Landts van Japan." It is taken from a book published in 1636 (three years before the Portuguese were expelled from Japan by the Dutch), entitled *Rechte Beschryvinge van het mactigk Koninkrijk van Japan* (Lucas and Caron). The island is represented as connected by a neck with the continental "Landt van Jesso."

The explorations of the Dutch gave rise to the belief in a large island lying in the north Pacific, between America and Asia, called the island of "Jesso," with the supposed straits of Anian on the east, and the "Detroit de Vries" on the west. It clung for some time to the maps. Cf. *Nar. and Crit. Hist. America*, ii. pp. 463, 464, where is a fac-

simile of the map of Hennepin, as repeated by Campanius. There are other indications of it in maps noted in section ix., after this date. (See *post*, no. 330.)

329. A. D. 1700. Northeastern Asia by Ysbrand Ydres.

Made from explorations of this agent of the Russian government, and published as "Nova Tabula Imperii Russici." "Kamzatza" is a small river of the region, which ought to show the peninsula of Kamtschatka, but instead shows a rectangular cape, with the Pacific shore running north and south, and the Arctic shore east and west.

330. A. D. 1706. Terra de Yesso by Lugtenberg.

A curious configuration of North America is bounded on the north by Hudson's bay, connecting by the straits of Anian with the Pacific. North of these straits, and west of Hudson's bay and Baffin's bay, is an elongated (east and west) "Terra de Yesso," separated at the west end by the "Straet de Vries" from Yedso, a part of Asia, of which Japan is a southern peninsula. He supposes "Yesso" to be the country of the Lost Tribes, and the route by which America was peopled from Asia. A chain of smaller lakes connects the Great Lakes of Canada with the Pacific. (See *ante*, no. 328.)

331. A. D. 172- (?) Kamtschatca by Homann.

Published by J. B. Homann in Nuremberg. Evidently made before Behring's expedition in 1728. It purports to be based on the reports of Russian caracks and sable hunters. The peninsula is extended too far south, and Homann seems to confound it with Jesso. The northern end of Nippon or Japan is shown. The mouth of the Amur (Amoor) is shown.

332. A. D. 1721. Northern and Eastern Asia by Lange.

Without annotation.

333. A. D. 1728. North Eastern Asia by Behring.

Without annotation.

334. A. D. 1750. Northern Pacific by Delisle and Buache.

"Carte des nouvelles découvertes au nord de la mer du Sud, dressée sur les mémoires de M. de L'Isle par Philippe Buache, et présenté à l'académie des Sciences par M. De L'Isle, 1750." Delisle worked up his memoir in St. Petersburg, with the aid of Russian reports and surveys. The tracks of Behring, Spanberg, and others are laid down. Buache has tried on the American side to reconcile the reports of De Fonte with the later Russian discoveries, and gives a large inland "Mer de l'Ouest," the archipelago of St. Lazare and connecting inland waters, and the "lac de Velasco." He also puts down the supposed land seen by De Gama in mid-ocean, as also seen by Tschirikow and Delisle in 1741.

See section ix., under A. D. 1752-53.

335. A. D. 1761. Shores of the Northern Ocean.

The map in Coxe's *Russian Discoveries*, London, 1803, showing the exploration of the Russian Shalaurof in 1761. Cf. map of the Northern Pacific with Russian discoveries, in *London Magazine*, 1764.

336. A. D. 1768. Russian America.

The results of the official Russian expedition under Lt. Sind in 1764-68, as shown in a map made by a Russian geographer, Von Staehlin. "Alaschka" is made a large island, lying off the coast of North America, this point of northwestern America being severed on the map from the main. Burney thinks that in constructing this map the chart of a Russian, Ivan Levow, was used.

See *ante*, section ix., under A. D. 1776.

337. A. D. 1769. Kamtschatka and the Fox (Aleutian) Islands by Krenitzin and Levasheff.

From Coxe's *Russian Discoveries*, London, 1803. The northernmost of these islands is called "Alaxa Island," but it has a dotted line for its northern coast, and is really the point of Alaska.

338. A. D. 1775. Russian America by Jefferys.

Founded on no. 336, *ante*; but Jefferys continues the northern coast of America according to the Japan map given by Kemper to Hans Sloane.

See *ante*, under A. D. 1583-1600.

339. A. D. 1775. Northern Pacific by Engel, Vaugondy, and Buache.

"Carte de comparaison des plans systématiques de Mr. M. Engel et de Vaugondy sur le Nord-Est de l'Asie et le Nord-Ouest de l'Amérique avec des cartes modernes. Par J. N. Buache, 1775." Engel's outlines are given in red, Vaugondy's in black, Buache's in blue. The longitude varies with them as much as 40° in some places.

See *ante*, section ix., under A. D. 1752-53.

XI.**THE NORTH ATLANTIC OCEAN AND NEIGHBORING WATERS.**

. See sections i., iv., v., and vi.

340. A. D. 1450. The Northern Coast of Europe.

From a mappemonde found in the "Museum Borgianum," and supposed to be made by a German. The island "Anglia" and "Scotia" is shown.

341. A. D. 1534. Scandinavia by Bordone.

From the *Isolario de Benedetto Bordone*, Venice, 1534, the earlier edition having appeared in 1528. It shows the Baltic, the Scandinavian peninsula with "Engronelant" (Greenland) lying north of it, and connected by an isthmus with northwestern Europe. (*Ante*, nos. 48, 103.)

342. A. D. 1540. Northwestern Europe, from the Ptolemy published at Basle.

The north Atlantic is confined on the east by Norway, on the north by a neck called "Gronland, i. e. Virens terra," and on the west by "Terra nova sive de Baccalaos, (Bacalhós)," — whose coast is interrupted at the northwest by a square or vignette. "Island, Thyle" is a large island in the midst of this ocean. In the extreme north, beyond the land, is the "Oceanus Hyperboreus." An inscription south of the "Gronland" isthmus reads: "Capiunter hic Stockfish." (*Ante*, no. 52, A. D. 1540.)

343. A. D. 1548. Northwestern Europe.

From the map known as the Dauphin, or Henri II., which Kohl used while in Jomard's possession. It shows the Baltic, and a large vaguely defined country to the north marked "Groolande" (Greenland), and on its northern coast "Vinnlapie" (Finland). Cf. *ante*, no. 156.

344. A. D. 1546. Scandinavia.

Shows the Baltic, "Suecia," and "Islamda" (Iceland). From a MS. atlas by Juan Freire, in the possession, when Kohl took it, of Santarem. One branch of the Baltic is made to connect with the northern ocean. Kohl suggests from the fact that the names in the north are Portuguese, or at least not Scandinavian, that the Freire did not use northern drafts. (*Ante*, no. 152.)

345. A. D. 1567. Scandinavia by Olaus Magnus.

From an engraved map in the history of Scandinavia by Olaus Magnus, which represents geographical knowledge, as Kohl thinks, of a much earlier date. A peninsula in the northwest part of the map, extending to 82° n. lat., is marked "Gruntlondia," and a legend says: "Hic habitant pigmei vulgo Scirelinger dicti," recognizing the Scandinavian name of the Eskimo. (*Ante*, no. 106, A. D. 1567.)

346. A. D. 1570. North Atlantic by Stephanus.

From Torfæus's *Grönlandia Antiqua*, and marked "Sigurdus Stephanus delineavit, Anno, 1570." The draft was seemingly based on records or traditions of early Scandinavian voyages to the west from Iceland, which here is placed as "Island" in the centre of the map. On the west the coast of Norway is called "Biarmaland." North of this, a narrow strait is shown as connecting with water known to the Russians, or running towards their country. On the north is "Jotunheimar" and "Riseland" (land of giants); on the west a long cape, "Heriolfness," seems to be Greenland's southern point; at the southwest a cape stretches northward which is marked "Promontorium Vinlandiæ," which Kohl thinks may have been Newfoundland. Between this and Greenland lie (going south) "Helleland," (stony land), "Markland" (woody land), and "Skraelingeland" (land of dwarfs).

Kohl gives a sketch of this map in his *Discovery of Maine*. (See *ante*, no. 106, A. D. 1570.)

347. A. D. 1570. The North Atlantic.

Torfæus, who gives this map, says of it: "Jonas Gudmundi filius delineavit, vir curiosus Islandus." Kohl thinks it follows Scandinavian traditions. The north Atlantic is shown as landlocked, except there is a narrow strait connecting with the Arctic sea, north of the Scandinavian peninsula, and a contracted continuation of the ocean at the south, between "Gallia" and a land, the northern part of which is seen, and called "America," "Terra Florida," "Albania," etc. Above this is another channel, running west from the enclosed ocean. The west and north of this ocean is bounded by a land marked (going north) "Wester Bygd," "Oster Bygd," "Kroksfiorderheide," "Riseland," and "Helleland."

See no. 351, *post*.

348. A. D. 1595. Nassau Strait by Barentz.

From De Bry, third part of the Oriental series, or Minor Voyages, published at Frankfort, 1601. Kohl

assigns the surveys on which this map is constructed to the second voyage of Barentz in 1595. The map was re-engraved in the *Begin ende Voorigange van de Oost-Indische Compagnie*, 1646, vol. I., p. 6. The strait is that south of Nova Zembla, separating it from the main.

349. A. D. 1595. Northern Europe by Linschoten.

This is from the engraved map in Part 10 of the same series of De Bry (1613). Linschoten accompanied Barentz in his expedition of 1594. It follows the coast from the eastern shore of Norway to beyond Nova Zembla.

350. A. D. 1597. Nova Zembla by De Veer.

From the map in the third part of the same series of De Bry (1601). Gerhard de Veer was with Barentz on his three northern voyages. A facsimile of this map, *Caerte van Nova Zembla . . . door Gerrit de Veer*, is given in the *Three Voyages of Willem Barents*, published by the Hakluyt Society in 1876, as well as in that society's *Three Voyages by the North East*, published in 1853.

351. A. D. 1606. North Atlantic.

From Torfæus's *Gronlandia Antiqua*, 1606, where it is called: "Delineatio Gronlandiæ Gudbrandi Torlacii, Episcopi Holensis." It resembles somewhat no. 347, *ante*; but the land called "America" in that is here named "Estotilandia." "Gronlandia" is better drawn, of which the east shore is marked: "Latus orientale Groenl. inhabitatum." It is sketched in Kohl's *Discovery of Maine*, p. 109.

352. A. D. 1613. Northern Russia and Nova Zembla by De Bry.

From Part 10 of the same series of De Bry, published in 1613. It purports to be taken from a Russian map, and the language of that to be translated into Latin.

The map by Isaac Massa is reproduced in the Hakluyt Society volumes, — *The three Voyages of Willem Barents* (1876) and *Three Voyages by the North East* (1853).

353. A. D. 1773. Northwestern Europe, Spitzbergen and Greenland by Phipps.

It shows the ocean north of 50°, and west of the meridian running through Iceland; a part of Greenland is projected above 71°. From the map given by Constantine John Phipps in his *Voyage towards the North Pole*, London, 1774.

354. A. D. 1818. North Atlantic by Buchan.

It shows Iceland, Norway, Spitzbergen, and the east coast of Greenland. It is taken from the chart in F. W. Beechey's *Voyage of Discovery towards the North Pole, performed in his Majesty's Ships Dorothea and Trent, under the command of Capt. D. Buchan*, London, 1843.

* Cf. the enumeration of Arctic maps in the *British Museum Catal. of Engraved Maps*, 1885, column 175.

XII.

SOUTH AMERICA.

* See section ii., *ante*, and xiii. to xvi., *post*.

— A. D. 1515.

Schöner's early globe, of which there are drawings of the South American parts in Ruge's *Zeitalters der Entdeckungen* (p. 461), and in the *Nar. and Crit. Hist. America*, vol. viii. Cf. *ante*, nos. 34 and 35, and the Nordenskiöld gores of the early part of the sixteenth century, figured in that author's *Globkarta fran Björjan af sexton de selket*, and in the *Nar. and Crit. Hist. America*, vol. viii.

355. A. D. 1540(?). South America. (French.)

Part of a MS. mappemonde in the British Museum, supposed to have been made by order of Francis I. for the Dauphin. Cf. Malte Brun, *Hist. de la Géographie* (Paris, 1831), vol. i., p. 630. The general name of the continent seems to be *La Terre du Brésil*, which convinces Kohl that the map-maker used Portuguese sources, which is also apparent from the Portuguese flavor of the French names on the map, where French is used. There are, however, Spanish legends in some parts, as on the east coast of Patagonia. There are no names on the coast of Chili, which leads Kohl to think that the map could not have been made long after 1535, when that coast became well known. The Amazon is not represented except in its mouth; and as Orellana did not explore it till 1543, intelligence of his voyage had not reached, it would seem, the draughtsman. The La Plata connects with the Amazon's mouth, making an island of the most easterly part of the continent. There is a sketch of it in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1544.

Cabot's mappemonde. (See *ante*, section ii., *sub* 1544.) A sketch of the South American part is given in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1545-49.

Medina's *Arte de navegar* (1545) had a map of South America, cut off above the La Plata. This same cut was pieced out to include Magellan's straits in the edition of 1549. A facsimile of this last is given in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1548.

The "Carta Marina" of the Ptolemy of this year. See *ante*, under no. 58. A facsimile of this map is given in the *Nar. and Crit. Hist. America*, vol. viii.

356. A. D. 1550(?). South America.

From a Spanish portolano preserved in the Bodleian Library, at Oxford. Indications of towns founded after 1550 would probably put the date of the map about 1560, as Kohl indeed says in his annotations, but he gives the date "about 1550" in the title of it. The interior of the continent is rather fancifully laid out, and the coasts are not so well made out as on contemporary Portuguese charts. What seem to be the Falkland islands are called "yās de S. anton."

357. A. D. 1550(?).

A less perfect draught of the same.

— A. D. 1554.

The Bellero map. See *ante*, no. 64. There is a facsimile of it in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1556.

Map in Ramusio; repeated in the edition of 1565. See *ante*, no. 66. There is a facsimile in the *Nar. and Crit. Hist. America*, vol. ii., p. 228.

358. A. D. 155-(?). South America. (French.)

From a MS. map once in the possession of M. Jomard. Kohl thinks it a French map made after a Portuguese original, and that it resembles the Nicolas Vallard map of 1547. The general name of the continent is **Amerique**. There being no trace of Villegagnon's settlement in Brazil in 1556, Kohl puts its date earlier than that year.

— A. D. 1561.

The maps in the Ruscelli edition of Ptolemy. See *ante*, under no. 69.

359. A. D. 1562. South America by Gutierrez.

After an engraved map, thought by Kohl to be the earliest on so large a scale, and called, "Americæ sive quartæ orbis partis exactissima descriptio. Auctore Diego Gutierrez, Philippi regis Hisp. Cosmographi. H. Coch excud. 1562." It shows neither latitude nor longitude. The serpentine course of the Amazon is like the delineations of Homem, and the river bears the names reported by Orellana. South of the Amazon, and between it and the La Plata, is the Rio de Marañon, which is made to rise in lake Titicaca, and empty into the Atlantic. The Magdalena River was known after 1538, but it fails of recognition on this map, which is sketched in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1569.

The great Mercator map. See *ante*, under no. 71.

— A. D. 1570.

The Ortelius atlas. See *ante*, no. 72.

— A. D. 1572.

The Porcacchi map. See *ante*, under no. 72.

360. A. D. 157-(?). South America by Forlani.

The printed map of Paulo di Forlani in the British Museum, without date. It is called *La Descrittione di tutto il Peru*. The name of Peru does not otherwise occur on it. The eastern extremity is called "Terra del Brasil." The northwest corner is marked, "Castiglia del Oro." The Orinoco country is called "La nova Andalucia." The longitude is reckoned apparently from Pico in the Azores. There is a copy of the original in Harvard College Library, after which a facsimile was made in the *Nar. and Crit. Hist. America*, vol. viii.

361. A. D. 1574. South America by Forlani.

The map has an Italian inscription, which is to this effect: "I met some months since in Venice a certain Don Diego Hermano, a gentleman of noble family, and had with him some talks on geography. He presented to me a sketch, showing voyages of

exploration, and this drawing I have engraved. Venice, Dec. 14, 1574. Paolo dei Furlani." Kohl thinks this map precedes no. 360.

— A. D. 1574.

The *Enchiridion* of Philippus Gallæus. See *ante*, under no. 72.

— A. D. 1578.

The Martines map. See *ante*, no. 77.

362. A. D. 1585(?). South America by Doetechum.

A MS. map in the British Museum, signed "Joannes a Doetechum fecit." The legends on the map are in Latin; but the names on the Brazil coast are in Portuguese, and on the other coasts in Spanish. Cordova, founded in 1573, is put down, and this affords an anterior limit for the date of the map. The name "Rio de buena Sarres" leads Kohl to think that the town Buenos Ayres (1580) had not been founded when the map was made, and he does not know the ground for the date 1585(?), adopted in the Museum catalogue. The Paraguay (called Parana) runs from Lacus Eupana, which has connection also through various channels with the Atlantic, above and below Cape St. Augustine. The map is cut off just north of Patagonia, and is held by Kohl to have been used by Hondius in his map, made shortly after 1600. The "Rio Grande" (Magdalena) is developed more than on any earlier map, as Kohl says. The Orinoco is a mere coast stream. There is a sketch of this map in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1587.

The map in Hakluyt's Paris ed. of Peter Martyr. See *ante*, no. 80.

363, 364. A. D. 1592. South America by De Bry.

An imperfect sketch, and a tracing.

365. A. D. 1593. South America by Judæis.

From an engraved map by Cornelius Judæis, called *Brasilia et Peruvia*. The Orinoco is a small stream. The La Plata is made to rise in the "Laguna del Dorado."

— A. D. 1593.

Map of Maffei. See *ante*, under no. 83.

— A. D. 1597.

The maps in Wytfliet's continuation of Ptolemy (see *ante*, under no. 85), and in the editions of Ptolemy at Cologne and Arnheim (see *ante*, under no. 84).

— A. D. 1598.

The map in Münster's *Cosmographia*. See *ante*, no. 86.

366. A. D. 1599. South America by Linschoten.

From an engraved map in Linschoten's *Navigatio in Indiam Orientalem*. The La Plata rises in the "Laguna del Dorado."

— A. D. 1599.

Hulsius's "Nova et exacta delineatio Americæ partis australis" in the *Vera historia* of Schmidel, Amsterdam, 1599, part of which is given in facsimile in the *Nar. and Crit. Hist. America*, vol. viii.

367. A. D. 1600(?). South America.

It shows the continent between the northern limits of Brazil and the upper parts of Patagonia. After a MS. map in the Dépôt de la Marine at Paris. Para, near the mouth of the Amazon, founded soon after 1620, is not indicated, and the course of the Amazon is not improved upon the type fashioned after the reports of Orellana in 1542. Near lake Titicaca is a legend about the explorations of Nuflo de Chaves, in 1557-1560. The names and inscriptions are nearly all Spanish, with an admixture of Portuguese in Brazil. The designations of the oceans and a few other names are French. These features indicate a French draughtsman, working on Spanish and Portuguese models.

— A. D. 1601.

Map in Herrera. See *ante*, no. 88.

— A. D. 1603.

The map in Botero's *Relaciones*. See *ante*, under no. 84.

— A. D. 1606.

Map in the *Regimiento de Navegacion* of Cespedes. See *ante*, no. 89.

368. A. D. 1610(?). America Meridionalis.

From the *Hondius-Mercator Atlas*, Amsterdam, 1630. The map is without date. The great Antarctic Continent, "Terra del Fogo," would indicate that it was made before Lemaire's voyage in 1615. No draughtsman's name is attached to the map, but Kohl conjectures that it was made by Hondius. Kohl calls it the most correct map at its date. Lake Titicaca connects with the Amazon. The "Eupana Lacus" connects south with the La Plata, north with the Amazon, and east with the Atlantic. The continent is made 60° broad.

See the Hondius map in the *Mercator Atlas* of 1613, and in Purchas, iii. p. 882.

— A. D. 1613.

The map in the *Detectionis Freti*, etc.

The map of Joannes Oliva in the British Museum. See *ante*, no. 90.

— A. D. 1625-30.

See De Laet, *ante*, no. 92.

— A. D. 1635.

See the Mercator Atlas, *ante*, under no. 100.

— A. D. 1651.

Jansson's *Atlas Minor*, ii. 401.

369. A. D. 1660. South America by Allard.

In the Orinoco he follows Viisscher; in the Amazon, Acufia. The river Xanca in Peru is made the source of the Amazon. He records Brouwer's passage between Staten island and Tierra del Fuego, in 1643.

— A. D. 1663.

Heylin's *Cosmographia*.

370. A. D. 1680-81. South America by Sharp.

The map is called "A description of the South sea and Coasts of America, Containing the whole navigation to all those places at which Capt. Sharp and his Companions were in the years 1680 and 1681." Sharp's track of circumnavigation is pricked on the map. The southern point reached by him was 58° 25', where he saw no land. He went much to the southeast of Staten island, called by him Albemarle island. The map is copied from Ringrose's *Buccaniers of America*, 2d ed. London, 1684.

XIII.

NORTHERN PARTS OF SOUTH AMERICA.

. See sections ii. and xii., *ante*.

371. A. D. 1525. North Coast of South America by Lorenz Fries.

One of the twelve sheets of a wood-cut map, made in 1525, but not published till 1530, and based, it is thought, on maps of Waldseemüller, as he had also used that geographer's maps in the 1522 edition of Ptolemy. The main inscription on the continent is "Das nûv erfunde land." Kohl thinks the information used was not very recent in 1525. It is sketched in the *Nar. and Crit. Hist. America*, ii. p. 218.

372. A. D. 1528. Terra de Santa Croce by Bordone.

From the first edition of Bordone's *Isolario*, 1528. It is called, "Terra de santa croce, over Mondo nuovo." He considers South America an island, having no connection with Asia or with North America. "C. S. X." is the designation put for the present Cape St. Augustine, and Brazil is called "Paria." He had only heard reports of Balboa's and Magellan's discoveries, and he omits the southern parts of the continent. The map is supposed to have been made in 1521. There is a sketch of it in the *Nar. and Crit. Hist. America*, vol. viii.

373. A. D. 1542. Northeast Coast of South America by Rotz.

From his *Boke of Idrography* in the British Museum. Kohl thinks from the names that Rotz derived more help from Portuguese than from Spanish sources. The two chief names along the coast are "Coste of Brazil" and "Coste of Caniballis." It extends from Trinidad to below Cape St. Augustine.

374. A. D. 1595(?). Amazon and Orinoco.

It shows the coast from the mouth of the Amazon to Panama, and the watersheds of the Amazon and Orinoco. The original MS. map was acquired by the British Museum in 1845, and Kohl is inclined to believe it the identical map made when Raleigh was on the Orinoco, or a contemporary copy of his map. The original is on vellum, and Kohl thinks that the manner of execution points to a date earlier than 1600. The extent of the map corresponds to the map which Raleigh tells us he made of the country, and the geographical features correspond with his narrative, including the "Lake of Manoa."

375. A. D. 1596. Orinoco.

A small sketch of the coast from Venezuela to the mouth of the Amazon.

376. A. D. 1619. Guiana from De Bry.

Kohl's annotations are erased.

377. A. D. 162-(?). Orinoco by N. Vischer.

Sketch of the Orinoco valley, with adjacent coasts, and part of Lacus Parime.

— A. D. 1651.

Northwest parts of South America, in Jansson's *Atlas Minor*, ii. 407.

378. A. D. 1656. Guiana by Sanson.

From the "Carte de la Guyane et Caribane, augmentée et corrigée suivant les dernières Relations par Sanson d'Abbeville, 1656." Kohl thinks Sanson used drafts brought away by the French when they left Cayenne in 1653. It shows in the interior a large "Lac ou Mer, que les Caraïbes appellent Parime." This draft remained the best one of the interior of Guiana till D'Anville's map in 1729.

379. A. D. 1669. Guiana by Thelot.

Made at Frankfort on the Main by T. P. Thelot, attached to an account of Guiana, published in 1669. The map is called, "Guiana sive Amazonum regio." The usual extensive "Parime Lacus," with its city of "Manoa," appears.

380. A. D. 1694. Surinam by Van Keulen.

From the *Zee-Atlas* of Van Keulen.

381. A. D. 1729. French Guiana by D'Anville.

From an engraved map based on reports of M. Milhan. It shows the country for about seven leagues around Cayenne.

382. A. D. 1729. French Guiana by D'Anville.

From 1635, when the French first had possession, down to 1676, when their possession was assured, and during later periods down to 1729, there were French surveys of the country, of which D'Anville had the use. Up to this date little was known of the interior beyond what the Fathers Grillet and Bechamel learned in explorations in 1674.

383. A. D. 1730. Venezuela by D'Anville.

Depending on Spanish reports. The coast is still inaccurate.

384. A. D. 1741. Orinoco Valley by Gumilla.

The map is called, "Mapa della Provincia y Misiones de la Compañia de I. H. S. de Nuevo Reyno de Granada." From an engraved map accompanying Gumilla's work on the Orinoco Country. Kohl thinks it hardly an improvement on the Raleigh map (*ante*, no. 374). It shows the "Laguna de Parima."

385. A. D. 1751(?). North Part of South America by Brentano and La Torre.

This map, without date, was made, in Kohl's opinion, not long after 1744, and is entitled, "Provincia Quitensis Societatis Jesu in America cum tribus eadem finitimis, a PP. Carolo Brentano et Nicholas

de la Torre. Romæ." A legend at the point where the Orinoco and Rio Negro (branch of Amazon) become confluent says that this connection was discovered in 1744, by Father Emanuel Roman, Superior of the Orinoco missions. The Portuguese had found it out, however, the year before. The course of the Orinoco seems to be copied from Gumilla.

386. A. D. 1775. Sources of the Orinoco by J. de la Cruz Cano.

A small imperfect sketch.

387. A. D. 1830. Massaroony River by Hillhouse.

A branch of the Essequibo river. An engraved map in the *Journal of the Royal Geographical Society*, iv. (1834).

388. A. D. 1832. British Guiana by Alexander.

From an engraved map in the *Journal of the Royal Geographical Society*, ii. (1832). The best map, before Schomburgk reformed the geography of the country.

389. A. D. 1834. Part of British Guiana.

An engraved map by Hillhouse in the *Journal of the Royal Geographical Society*, iv. (1834).

390, 391, 392. A. D. 1836. British Guiana by Schomburgk.

Nos. 390 and 391 are engraved maps in the *Journal of the Royal Geographical Society*, vi. (1836), and as improved in vii. (1837). These maps show the country from 1° to 9° N. lat., and from 56° to 60° W. longitude. No. 392 gives with minuter detail and according to later explorations, the part between 1° and 5° N. lat., and follows an engraved map in *Ibid.*, xv. (1845).

XIV.

SOUTHERN PARTS OF SOUTH AMERICA.

*. Cf. sections ii. and xii.

393. A. D. 1521. Straits of Magellan by Pigafetta.

From the engraved map in Amoretti's edition of Pigafetta's narrative of Magellan's voyage, published at Milan, 1800. There is a facsimile of this map in the *Nar. and Crit. Hist. America*, vol. ii., and a sketch in *Ibid.*, vol. viii.

— A. D. 1529.

Ribero's mappemonde. See *ante*, no. 41. A sketch of Magellan's straits from it is given in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1531.

Finæus's mappemonde. The southern hemisphere is reproduced in Wieser's *Magalhães-Strasse*, p. 66, and in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1533.

The southern hemisphere of Schöner is figured in Wieser's *Magalhães-Strasse*, and in the *Nar. and Crit. Hist. America*, vol. viii.

394. A. D. 1546. Patagonia and Magellan's Straits by J. Freire.

From a portolano which was in Santarem's possession when used by Kohl. While the east coast of Patagonia and the straits have a nomenclature traceable to Magellan's voyage, Kohl does not find any original source for the names on the west coast, which runs north on the map to 27° S. lat. Kohl is mistaken in supposing Magellan did not run up the west coast before turning westward. Pigafetta's map shows that he did. Kohl quotes Gomara's statement that Camargo, in 1540, was the first to bring to Europe certain news of the Pacific coast between the straits and Peru, and thinks that Freire may have had Camargo's charts. There is a sketch of this map in the *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1547.

A sketch from the Nicolas Vallard map is in the *Nar. and Crit. Hist. America*, vol. viii. See *ante*, no. 154.

— A. D. 1578.

Hondius's map illustrating Drake's voyage is reproduced in Kohl's *Magellan's-Strasse*.

395. A. D. 1579-80. Sarmiento's Discoveries.

From a MS. Spanish map in the British Museum, showing the surveys of Pedro Sarmiento among the coast islands on the west coast of Patagonia. It does not show his researches further south within Magellan's straits, which leads Kohl to suspect that the map only indicates the explorations made before his vice-admiral, Villalobos, returned to Peru.

396. A. D. 1587. Magellan's Straits and the Antarctic Continent.

From a French MS. in the British Museum. It represents Tierra del Fuego as expanded into a continent, the northerly point of which is made an island by a transverse channel, somewhat hesitatingly indicated by some pictures of trees, which conceal the reaches of it.

— A. D. 1590.

The map in Johannes Myritius's *Opusculum geographicum*. See *ante*, no. 79.

397. A. D. 1599. Magellan's Straits by F. de Weert.

From De Bry's *Greater Voyages*, Part IX. (1602), showing the results of De Weert's surveys of the straits. Kohl thinks that Hondius in his *Atlas* (1607) worked from the same material with more detail, as shown in his better delineation of the great bend in the strait, which is here hardly noted.

398. A. D. 1600. Magellan's Straits by Hondius and Mercator.

This accompanies the treatise on the straits in the Hondius edition of Mercator, 1607, — which treatise, as it does not record the recent Dutch explorations, Kohl judges to have been written by Mercator himself before 1594, and to have been used by Hondius to accompany a map, embodying the Dutch surveys of Mahn, Coraes, and De Weert in 1598-99. Just after this, in 1600, Kohl would place this map.

Cf. the Hondius map in Purchas, iii. p. 900.

399. A. D. 1600. Southern Part of South America by Olivier van Noort.

A combination of two maps which appeared in the *Begin ende Voortgang van de vereenigde Neederlandsche Oost-Indische Compagnie*, 1646. Van Noort tracked these coasts in 1599-1600.

400. A. D. 1602. Patagonia by Van Noort.

The southern part of no. 399, which Kohl dates in this case 1602. He makes no comments on it.

401. A. D. 1602. Patagonia by Levinus Hulsius.

It gives an excessive breadth to the Patagonian region, as was usual in maps of this time. In the interior a Patagonian giant is represented running an arrow a yard and a half long down his throat to the bottom of his stomach.

402. A. D. 1615. Magellan's Straits by Spilbergen.

A map in De Bry, Part XI. (1619), purporting to show the explorations of George Spilbergen; but there is nothing in the accompanying text to explain its history.

403. A. D. 1619. Tierra del Fuego by Schouten.

Showing Magellan's straits; Tierra del Fuego, which is made a single large island, with a portion of its west coast unknown, and Lemaire's channel separating it from "State landt," the western end of which is shown; as is also Schouten's track in rounding Cape Horn. It follows the engraved map in the *Diarium vel descriptio . . . itineris facti a Guilielmo Cornelio Schotenio Hornano*. Amsterdam, 1619. The map is called, "Caarte van de nieuwe Passage . . . ontdekt . . . in den jare 1616 door Willem Schouten van Hoorn." Schouten's own charts are lost, says Kohl; but as Willem Jansson wrote the preface to the book, he probably made this map from Schouten's drafts. Schouten sailed under the patronage of some Dutch merchants, chief among whom was Isaac Lemaire, with the purpose of discovering some other passage to the Pacific than Magellan's straits; and he was accompanied by Jacob, son of Isaac Lemaire, and after the latter they named the newly found passage between State landt and the main coast.

Cf. the map on the title of the London edition of Schouten (1619), of which a facsimile is given in the *Nar. and Crit. Hist. America*, vol. viii. Kohl in his *Magellan's-Strasse* gives the map from the Amsterdam (1619) edition.

404. A. D. 1621. Patagonia by Nodal.

Follows an engraved map in Montenegro's *Relacion del Viaje de los Nodales*, Madrid, 1621.

405. A. D. 1621. The Same.

A less perfect copy. This map is reproduced in Kohl's *Magellan's-Strasse*.

406. A. D. 1624. Cape Horn by Walbeck.

An engraved map in the *Begin ende Voortgang van de Vereenigde Oost-Indische Compagnie*, 1646 (vol. ii.).

407. A. D. 1630. La Terra del Fuogo by Dudley.

One of the MS. maps of Robert Dudley, preserved at Munich, on which his *Arcano del Mare*, published at Florence in 1646, was based. Kohl assigns all of Dudley's maps to 1630. Tierra del Fuego is made a completed island on the Schouten idea. "Staten land" is a peninsula of a great Antarctic continent.

— A. D. 1644.

The map in the Amsterdam ed. of Linschoten.

— A. D. 1646.

The map of Kaerius in Speed's *Prospect* (London, 1665).

— A. D. 1651.

Straits of Magellan in Jansson's *Atlas Minor*, ii. 427.

408. A. D. 1666. Magellanica by Jansson.

From Jansson's *Atlas*, 1666. For Magellan's straits, he followed mainly Nodal's reports. The general shape of Tierra del Fuego is like Schouten's. "Staten Eylant" has the insular form for the first time, says Kohl, in a printed map.

409. A. D. 1670. Magellan's Straits by Narborough.

Sir John Narborough was sent out by Charles II. in 1669 to renew explorations, which had been neglected for many years. Narborough's map, three feet long, as drawn by himself on parchment, is in the British Museum. From this a reduction was engraved and published in London, and from this engraving—"A new map of Magellan's straits discovered [*sic*] by Capt. John Narborough, commander of H. M. Ship Sweepstakes made and sold by P. Thornton"—Kohl makes the present draft, which he thinks was largely based on early Dutch surveys.

410. A. D. 1670. Patagonia and Tierra del Fuego by Narborough.

This map seems also mainly derived from Dutch sources, and appeared in *An Account of several late Voyages and Discoveries to the South and North by Sir John Narborough*, London, 1694.

411. A. D. 1700(?). Coast South of Buenos Ayres.

The date 1700 is given by Kohl in the title, but it seems to be an error, as in his notes he says the map, which is a MS. one preserved in the British Museum, grew out of the explorations of Juan de la Piedra and of Antonio and Francisco Viedma in 1778 and 1779, under instructions from Spain to form settlements on the east coast of Patagonia. The map also shows the inland explorations of Brazilio Villarino in 1782, who was sent out by Viedma. Routes of other explorers are also indicated.

412. A. D. 1714. Magellan's Straits and Tierra del Fuego by Frezier.

This is one of the maps explained by Frezier to Louis XIV., when he returned, in 1714, from the voyage of exploration on which that monarch had sent him in 1712. Cape Horn is laid down in 55° 45'. The west coast of Tierra del Fuego trends nearly east and west. The eastern parts of the Falkland

islands are shown, with tracks of vessels from St. Malo from 1700 to 1713, by whom they are said to have been discovered.

413. A. D. 1717. The Same.

This is an incomplete sketch dated differently, and has no annotations.

414. A. D. 1748. The Country South of the Rio Plata by Cardiel.

An oblong, incomplete sketch, without comment.

— A. D. 1766.

Bougainville's map of the straits, of which a facsimile is given in the *Nar. and Crit. Hist. America*, vol. viii.

415. A. D. 1775. Southern Part of South America.

From an English map, based on the *Atlas* of Juan de la Cruz Cano y Olmadiella, published at Madrid in 1769. The English map is called "improved from Byron, Wallis, Carteret and Bougainville, 1775."

416. A. D. 1782. Rio Negro.

This shows a section from ocean to ocean of northern Patagonia and Chili, and was based by Arrow-smith on data got from the explorations of Basilio Villarino in 1782, and was published in the *Journal of the Royal Geographical Society*, vol. vi. (1836).

417. A. D. 1783. East Coast of Patagonia by Viedma.

It follows a rough sketch preserved in the British Museum.

418. A. D. 1824. Cape Horn and Vicinity by Capt. Weddell.

A small sketch without notes.

419. A. D. 1830. Patagonia after Capt. King

A sketch without comment.

420. A. D. 1833. The Southern Pole.

A map showing the southern hemisphere between the pole and 30° S. lat., with tracks of recent explorers laid down, published in the *Journal of the Royal Geographical Society*, iii. (1833).

421. A. D. 1833. East Falkland Island.

From the *Journal of the Royal Geographical Society*, iii. (1833).

XV.

BRAZIL AND THE AMAZON.

* Cf. sections ii., xii., and xiii.

422. A. D. 1500. Brazil by La Cosa.

A section of the La Cosa chart. See *ante*, no. 26. Kohl considers that La Cosa, in the water which he represents southwest of South America, anticipated the discovery of the South Sea or Pacific. He considers the "Costa plaída" to mark the island which

divides the Amazon proper from the Para river, and holds that the names along the coast are the results of the voyages of Pinzon and Lepe.

423. A. D. 1525. Brazil by Lorenz Friess.

From the *Carta Marina* (Atlas) of Lorenz Friess, published in 1530, but it represents rather the condition of knowledge of this part of the South American coast after the Portuguese explorations of 1501-3. The country is called, "Prisilia sive terra papagalli." Another (German) inscription reads, "In this country, men when they die, are cut up, smoked, roasted and eaten." Another says, "They have sailed all along this coast, but no one has penetrated into the country." It is sketched in the *Nar. and Crit. Hist. America*, vol. viii.

424. A. D. 1542. Coast of Brazil by Rotz.

A sketch without comment. It is from the *Idrography*. See *ante*, no. 55. Brazil is made an island.

425. A. D. 1546. Brazil by J. Freire.

It shows the coast from the mouth of the Amazon to La Plata. Copied from a MS. portolano then in the possession of Santarem. It gives latitude without longitude, and Kohl calls it the earliest good survey by astronomical helps. La Plata rises in a lake, which Kohl believes the same discovered by Cabeça de Vaca, and for the first time laid down in this map.

426. A. D. 1547. Brazil by Nic. Vallard.

From a MS. atlas. See *ante*, no. 154.

427. A. D. 1556. Brazil.

From Ramusio, *Viaggi*, vol. iii. (1556). The map appears to be of French origin. There is a facsimile in Paul Gaffarel's *Brésil Français*, p. 61.

428. A. D. 1558. Brazil by Diego Homem.

From the MS. atlas in the British Museum. See *ante*, no. 67. It covers the same extent as no. 425, but the coast is more minutely drawn, and besprinkled with names, quite unlike those of Freire. The degrees of latitude are marked, but not numbered.

429. A. D. 1558. The Amazon and the Northern Coast by Diego Homem.

From the same atlas as no. 428. That part of the ocean which receives the flow of the Amazon is called "Mare aque dulcis." The river itself is called "Rio de S. Juan de las Amazonas." The names given by Orellana are scattered along its course. The name "Omaga" (Omagua) is said by Kohl to be here seen for the first time on a map. There is a sketch of this map in the *Nar. and Crit. Hist. America*, viii.

430. A. D. 1558. The Same.

A less perfect sketch.

431. A. D. 1561. Brazil by Ruscelli.

Added by Ruscelli to the ed. of Ptolemy, published 1561, and thought to be made upon the draft published by Ramusio, 1556; but Ruscelli adds lines of longitude and latitude, which Ramusio did not give. Kohl thinks it the earliest map of Brazil on which longitudes are marked. They are nearly right—by a chance.

— A. D. 1578.

Brazil in the *Atlas* of Johannes Martines, in the British Museum. See *ante*, no. 75. A sketch of the map of Brazil is given in the *Nar. and Crit. Hist. America*, vol. viii.

432. A. D. 1599. South America by Levinus Hulsius.

An engraved map published at Nuremberg, and called, "Nova et exacta Delineatio Americae partis Australis, que est Brasilia," etc. Kohl says that the Orinoco is for the first time drawn inland. It is represented as a broad stream, with a mouth filled with many islands. The usual "Parime Lacus" connects with the Atlantic by the Caiane and Waipago rivers. A large "lacus Eupuna" connects north with the Amazon, east with the ocean, and south (apparently) with the La Plata river. See facsimile in *Nar. and Crit. Hist. America*, vol. viii.

— A. D. 1651.

Brazil, in Jansson's *Atlas Minor*, ii. 417. It resembles Ramusio's, no. 427, *ante*.

433. A. D. 1656. The Amazon by Sanson.

A published map, "Le Peru et le Cours de la Rivière Amazon, Paris, 1656." It was made in large part after the reports of Father d'Acunha, who accompanied Pedro Texeira in 1638 on his trip up the Amazon, thence to Quito, and return. An account of the journey was published in Madrid in 1640, but without a map. This map, fashioned by Sanson, on that account continued to be the best, down to the map of Father Fritz in 1717.

434. A. D. 1695. Brazil by Coronelli.

A small sketch, without comment.

435. A. D. 1700. (?) The Amazon by Fritz.

After a MS. map in the Depot de la Marine at Paris, without date or author, called "Rio de Marannon o de Amazonas." Kohl thinks it either a copy of Father Fritz's map, as he made it, or as it was engraved in Quito in 1707. The names agree with those in Fritz's report. It does not give the upper course of the Ucayale, which is given in no. 438 (*post*), but it gives details generally with greater fulness.

436. A. D. 1703. The Amazon by Delisle.

It is called, "Carte du Pays des Amazones, par De l'Isle, d'après Herrera, Laet, Acuña, Rodriguez, etc., 1703." It is incorrect in many important particulars.

437. A. D. 1703. Brazil by Delisle.

Called, "Carte du Brésil d'après Herrera, Laet, Acuña, Rodriguez et sur plusieurs relations, 1703." Kohl considers Sanson's map of 1656 far more accurate.

438. A. D. 1707. The Amazon by Fritz.

The German Jesuit missionary, Father Samuel Fritz, was familiar with the river after 1686, and during his journeys he used rude instruments to make observations of latitude, but he had none to determine longitude, though lines of longitude are given in his map. This map was engraved in Quito

in 1707, and is the earliest map based on any astronomical observations. A reduced copy of it was, in 1717, published in the *Lettres Édifiantes*, but was unaccompanied by Fritz's reports, which were never published. It remained the best map till that of Condamine (1744) was published. The present copy follows the reduction of the *Lettres Édifiantes* (vol. xii, p. 212).

439. A. D. 1744. The Amazon by Condamine.

Condamine was on the river in 1743 and 1744, and he was provided with better instruments than Fritz possessed, so that he placed points on the river astronomically with more accuracy. Kohl by a dotted line plots in on the same drafts, for comparison, the survey by Fritz.

440. A. D. 1749. The River Madeira from Southey's Papers.

From a MS. map in the British Museum, which had belonged to Robert Southey, when he was writing his *Hist. of Brazil*. It is a Portuguese map, and seems to have been made by a trader from Para.

441. A. D. 1751. The Amazon.

A corrected sketch without comment.

442. A. D. 1769. The Amazon by Father Amich.

After a Spanish MS. map by Fr. José Amich, preserved in the British Museum. Kohl thinks that Amich's advances in the cartography of this region were not well known for some time after 1769.

443. A. D. 1790. The Huallaga and Ucayali Rivers by Sobreviela.

This is a map made by Father Francisco Manuel Sobreviela in 1790, as corrected by Amadeo Chaumelle in 1830, and published that year at Lima.

444. A. D. 1814. The Rivers Ucayale and Huallaga by Father Carballo.

Father Paule Monso Carballo belonged to the Franciscan convent of Ocopa in Peru. He used the MS. maps in the archives of his convent which had been deposited from time to time by the missionaries whom it had sent out.

445. A. D. 1825. The Amazon.

A MS. *Carta geographica das Provincias do Grão Para e Rio Negro*, Para, 1825.

446. A. D. 1852. The Negro and Naupes by A. R. Wallace.

This map, made by Wallace from observations on the river in 1850-52, was published in the *Royal Geographical Society's Journal*, xxiii.

XVI.

LA PLATA.

* Cf. sections xii. and xiv.

— A. D. 1515.

Wieser thinks that the map in Kunstmann (pl. iv.) is a Portuguese copy of a map made by Solis of this date.

447. A. D. 1547. La Plata by Nic. Vallard.

It extends south to Magellan's straits. From the well-known atlas in the Sir Thomas Phillipps's Collection, marked, "Dieu pour espoir. Nicolas Vallard de Dieppe, 1547." It has been questioned if this was not the name of the owner, rather than of the maker of the atlas, but Kohl says the writing is the same as the inscriptions contained on the maps. The tropic of Capricorn is marked, but the degrees of latitude, though traced, are not numbered. The names are mostly Portuguese, but with an occasional French turn. The bay of Rio de Janeiro is drawn but not named.

448. A. D. 1547. The Same.

An imperfect sketch, without annotation.

449. A. D. 1597. La Plata by Wytfliet.

A corrected sketch, without annotation.

450. A. D. 1598. Mouth of the La Plata.

A Dutch map, which accompanied an account of a voyage made from Holland in 1598 by the Dutch admiral, Lauren Bicker.

451. A. D. 1600. La Plata.

A Spanish map published by Jodocus Hondius in his *Atlas* in 1607.

452. A. D. 1630-35. Parana and Uruguay Rivers.

The earliest map constructed by the Jesuit missionaries, and published by Blaeu in his *Atlas*. It shows the stations which were destroyed and those which were spared in the raids of the slave hunters of St. Paulo, 1630-35.

— A. D. 1651.

La Plata in Jansson's *Minor Atlas*, ii. 421.

453. A. D. 1733. La Plata by D'Anville.

It shows both coasts of South America between 18° and 37° S. lat., and represents the continent as much narrower than on earlier maps.

454. A. D. 1733. The Same.

Without annotation.

455. A. D. 1826. Rio Vermejo by Soria.

A branch of the La Plata. This map was made from memory after Francia, the dictator of Paraguay, had seized the papers of Dr. Pablo Soria, who had conducted the exploration for a company in Buenos Ayres. The present copy follows a draft made for the Geographical Society of Paris. Cf. Sir Woodbine Parish's *Buenos Ayres*, London, 1839.

XVII.

PERU AND CHILI.

* Cf. sections ii., xii., and xiii.

456. A. D. 1532(?). Peru.

It extends 10° north and south of the equator. It is French in language, but Kohl conjectures that it follows early Spanish maps sent home by Pizarro.

It was in Jomard's possession when Kohl made his copy. The battle of Caxamalca is sketched in the southern part of the map, and Kohl believes the original draft of the map may have been sent to Spain shortly after that event.

457. A. D. 1532(?). The Same.

An imperfect sketch, without annotation.

458. A. D. 1597. Peru by Wytfliet.

An imperfect sketch, without annotation.

459. A. D. 1601. Peru by Herrera.

Follows an engraved map in Herrera's *Descripcion de las Indias*, Madrid, 1601.

460. A. D. 1630. Chili, Patagonia, and Magellan's Straits.

After a map in the Dépôt de la Marine in Paris, made by the Father Procurator of the Jesuits in Chili, who acknowledges his indebtedness to De Laet, Herrera, and De Bry. Kohl engraves it in his *Magellan's-Strasse*.

461. A. D. 1631. Peru by Jansson.

This map is a published one, drawn probably eclectically from Herrera and other serviceable sources, and also possibly from Dutch reports. The latitudes are fairly accurate, but longitudes are not attempted.

462. A. D. 1646. Chili by Ovalle.

It includes Patagonia and the straits of Magellan; and follows Sanson's reproduction (1656) of the map of the Jesuit Ovalle, engraved in Rome in 1646. It resembles no. 460, but is richer in names, and is otherwise an advance upon that draft.

— A. D. 1651.

Peru in Jansson's *Atlas Minor*, ii. 411.

463. A. D. 1700(?). New Spain and Peru.

From a *Cruising Voyage round the World* by Capt. Woodes Rogers, London, 1712, where it was engraved by J. Senex. The book gives no hint of the origin of the map, other than that this and the following no. 464 were captured by Capt. Rogers in the South Seas.

464. A. D. 1700(?). Chili.

From the same work as no. 463, but it is not so accurate a map for the time.

465. A. D. 1703. Chili by Delisle.

Not a very accurate representation of the best knowledge of its time, — as Kohl thinks.

466. A. D. 1712. Peru.

This map is from the same sources as nos. 463 and 464, and comes between them, in making a continuous coast line. Kohl gives it the date of Rogers' book, 1712, while he dates the others about 1700.

467. A. D. 1713. Los Moxos.

A Jesuit map of the province showing mission stations. A reduction of it is given in the *Lettres Édifiantes*, vol. viii. (1781) p. 337.

468. A. D. 1713. The Same.

Without annotations.

469. A. D. 1767(?). The River Marmore.

An undated MS. map of the Bishopric of Santa Cruz de la Sierra in Peru, preserved in the British Museum. It resembles no. 467.

470. A. D. 1781. The Moxos Country.

A small sketch of the mission-sites in Moxos.

471. A. D. 1783. The Missions of Ocopa.

One of the earliest maps made by the missionaries of Ocopa. It is preserved in the British Museum.

472. A. D. 1796. Peru by A. Baleato.

A MS. map attached to an official report (preserved in the British Museum) rendered on a change of Viceroy in Peru in 1796.

473. A. D. 1835. Excursions about Cusco.

Maps of journeys made by General Miller, engraved in the *Royal Geographical Society's Journal*, vol. vi. (1836).

474. A. D. 1836. The Same.

Cancelled.

FINAL NOTE (Aug. 11, 1886). In adding titles of maps to the enumeration of Dr. Kohl, no attempt has been made to give all maps, not mentioned by Kohl.

During the progress of this "Contribution," there has appeared in the *Report of the Superintendent of the U. S. Coast Survey, ending June, 1884* (Washington, 1885), as Appendix no. 19 (pp. 495-617), a *History of Discovery and Exploration on the Coasts of the United States*, by J. G. Kohl, with this prefatory note: "The historical accounts here given of discovery and exploration on the coasts of the United States were prepared at the instance of Professor A. D. Bache, the superintendent of the coast survey at the time (1854) of Dr. Kohl's visit to this country. But a few years had then elapsed since the beginning of the survey on the Pacific coast, and the want of an authoritative and connected account of early exploration upon that coast was greatly felt. Trustworthy data were needed to establish the origin of geographical names, to decide disputed points of orthography, to identify localities named by early explorers, and to show the condition of discovery and fix the limit of geographical knowledge at various periods. The work undertaken by Dr.

Kohl included, in addition to the historical account, a general map illustrating it, a collection of maps showing the range and limits appertaining to each discoverer and explorer, a list of names of bays, capes, harbors, etc., with critical remarks and a catalogue of books, maps, manuscripts, etc., relative to discoveries.

"In so satisfactory a manner was this work performed for the Pacific coast, that Dr. Kohl was asked to undertake a similar work for the coast of the Atlantic and the Gulf of Mexico. Upon its completion, the entire work was deposited for reference in the archives of the survey. Means for its publication as a whole not having been available, it has now been deemed advisable to publish the historical portion. To each memoir is appended a list of the collection of maps. Some of these maps are copied from originals, others from old manuscripts or rare prints, and those of more modern origin are of interest as links in the chain of historical connection." The paper of Kohl which follows is divided into three parts: I., the Atlantic coast; II., the Gulf of Mexico; III., the Pacific coast.

If these "historical accounts" had been published at the time, thirty years ago, they would have shown the best results in this line of research then produced. At the present date Kohl's views are in large part antiquated, and his knowledge is in important particulars insufficient or erroneous. The publication of the papers uncorrected and unexplained is, accordingly, an injury to his memory, and of little use to the student, except as indicating the condition of knowledge at that time. Kohl, before he died, and in the light of his increasing knowledge, spoke disparagingly of the work he did at that time.

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No. 20.



INDEX TO RECENT REFERENCE LISTS, 1884-1885.

By WILLIAM COOLIDGE LANE.

REPUBLISHED FROM THE BULLETIN OF HARVARD UNIVERSITY.

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1885.

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2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo, with Notes.
4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
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14. WILLIAM H. TILLINGHAST. Notes on the Historical Hydrography of the Handkerchief Shoal in the Bahamas.
15. J. D. WHITNEY. List of American Authors in Geology and Palæontology.
16. RICHARD BLISS. Classified Index to the Maps in Petermann's Geographische Mittheilungen. 1855-1881.
- *17. RICHARD BLISS. Classified Index to the Maps in the Royal Geographical Society's Publications. 1830-1883.
18. JUSTIN WINSOR. The Bibliography of Ptolemy's Geography.
- *19. JUSTIN WINSOR. The Kohl Collection of Early Maps.
20. WILLIAM C. LANE. Index to Recent Reference Lists, 1884-1885.

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OF

REFERENCE LISTS AND SPECIAL BIBLIOGRAPHIES

INCLUDED IN

PERIODICAL AND OTHER PUBLICATIONS OF RECENT DATE.

Two lists somewhat similar to the following were published two years ago:—one, by H. J. Carr in the *Library Journal* of February, 1883, the other, by the Boston public library in its *Bulletin* for September, 1883. The first indexed only the reference lists which had appeared in the bulletins of several libraries, and in a few English and American literary and bibliographical journals. The second covered the same ground and included in addition references to the valuable notes on many subjects found in the printed catalogues of the Boston public library and of some other libraries.

The present list is in part a continuation of the latter, as it indexes the same serial publications from the point where that left off, but it covers a wider range, is not limited to publications in English, and includes such bibliographies, lists of authorities, "quellenverzeichnisse" etc. contained in larger works as have been noted in a tolerably careful examination of all the volumes received in the library since January, 1884. Such lists of authorities are becoming more and more common in books which have involved careful investigation, and are of great use to students working in the same direction. The following index will furnish a ready key to many lists which have appeared recently. But few references are given to publications earlier than 1884, and none to works not in this library.

Acalephs. Bibliography of works on the development of. By J. W. Fewkes. (*Bull. mus. comp. zool.* 1884, xi. 209-238.)

Acrostics. Materials for a history of anagrams and acrostics. By W. C. Hazlitt. (*Bibliographer*, 1884, v. 174-175.)

Adam de la Hale's dramen. Von Leopold Bahlsen. Marburg. 1885. 8°. (*Ausg. u. abhandl. veröffent.* v. E. Stengel, 27.)

Bibliographie, pp. 1-8, 211-227.

Adams, J. Q. Administration. (*Providence ref. lists*, Nov. 1883, iii. 11.)

Aesthetics. Bibliography of beauty theories. [Chronologically, without notes. About 140 authors cited.] (*Notes and queries*, 1883, viii. 183, 243, 302, 382.)

Afghanistan, and Anglo-Russian dispute. By T. F. Rodenbough. N. Y. 1885. 8°.

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